

**SONY®**

DIGITAL VIDEOCASSETTE RECORDER

**DVW-250/250P**

**Digital BETACAM™**

MAINTENANCE MANUAL Part 2

Volume 2 1st Edition

Serial No. 10001 and Higher

## ⚠️ 警告

このマニュアルは、サービス専用です。

お客様が、このマニュアルに記載された設置や保守、点検、修理などを行うと感電や火災、人身事故につながることがあります。

危険をさけるため、サービストレーニングを受けた技術者のみご使用ください。

## ⚠️ WARNING

This manual is intended for qualified service personnel only.

To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

## ⚠️ WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.

Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegebenen Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung dazu besitzen.

## ⚠️ AVERTISSEMENT

Ce manual est destiné uniquement aux personnes compétentes en charge de l'entretien. Afin de réduire les risques de décharge électrique, d'incendie ou de blessure n'effectuer que les réparations indiquées dans le mode d'emploi à moins d'être qualifié pour en effectuer d'autres. Pour toute réparation faire appel à une personne compétente uniquement.

### CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the manufacturer.

Dispose of used batteries according to the manufacturer's instructions.

### ATTENTION

Il y a danger d'explosion s'il y a remplacement incorrect de la batterie.

Remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur.  
Mettre au rebut les batteries usagées conformément aux instructions du fabricant.

### Vorsicht!

Explosionsgefahr bei unsachgemäßem Austausch der Batterie.

Ersatz nur durch denselben oder einen vom Hersteller empfohlenen ähnlichen Typ.  
Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

### ADVARSEL!

Lithiumbatteri-Eksplorationsfare ved fejlagtig håndtering.  
Udskiftning må kun ske med batteri af samme fabrikat og type.  
Levér det brugte batteri tilbage til leverandøren.

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# このマニュアルについて

## 本書の目的

本書は、デジタルビデオカセットレコーダー DVW-250 のメンテナンスマニュアルです。

本書では、部品レベルでのサービスを前提とした情報（ブロック図、マウント図、回路図、詳細なパーツリスト等）を記載しています。

## 構成

本書の構成を把握していただくために、全章の概略を以下に説明します。

メンテナンスマニュアル  
パート2 Volume 2

### Section 1 Block Diagrams

基板配置図、ブロック図を記載しています。

### Section 2 Board Layouts

マウント図を記載しています。

### Section 3 Schematic Diagrams

回路図を記載しています。

### Section 4 Semiconductor Pin Assignments

本機に搭載されている半導体のピン名称、機能説明等を記載しています。

### Section 5 Spare Parts

本機の機構部品を対象とした分解図、電気部品リスト、治工具リストを記載しています。

メンテナンスマニュアル  
パート2 Volume 1

### 第1章 サービスインフォメーション

### 第2章 機構部品の交換

### 第3章 機構部品の調整

### 第4章 基板の交換方法

### 第5章 電気調整



# **Manual Structure**

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## **Purpose of this manual**

This manual is maintenance manual of Digital Videocassette Recorder DVW-250/250P.

This manual describes the information items (block diagrams, board layouts, schematic diagrams, detailed parts list, etc.) that premise the service based on the component parts.

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## **Contents**

The following is a summary of the sections for understanding the contents of this manual.

**Maintenance Manual  
Part 2 Volume 2**

**Section1 Block Diagrams**

Describes the locations of printed circuit board, and the block diagrams.

**Section 2 Board Layouts**

Describes the board layouts.

**Section 3 Schematic Diagrams**

Describes the schematic diagrams.

**Section 4 Semiconductor Pin Assignments**

Describes the pin assignments, and the function explanation used in this unit.

**Section 5 Spare Parts**

Describes the exploded views for the mechanical parts, the electrical parts list, and the optional fixtures list in this unit.

**Maintenance Manual  
Part 2 Volume 1**

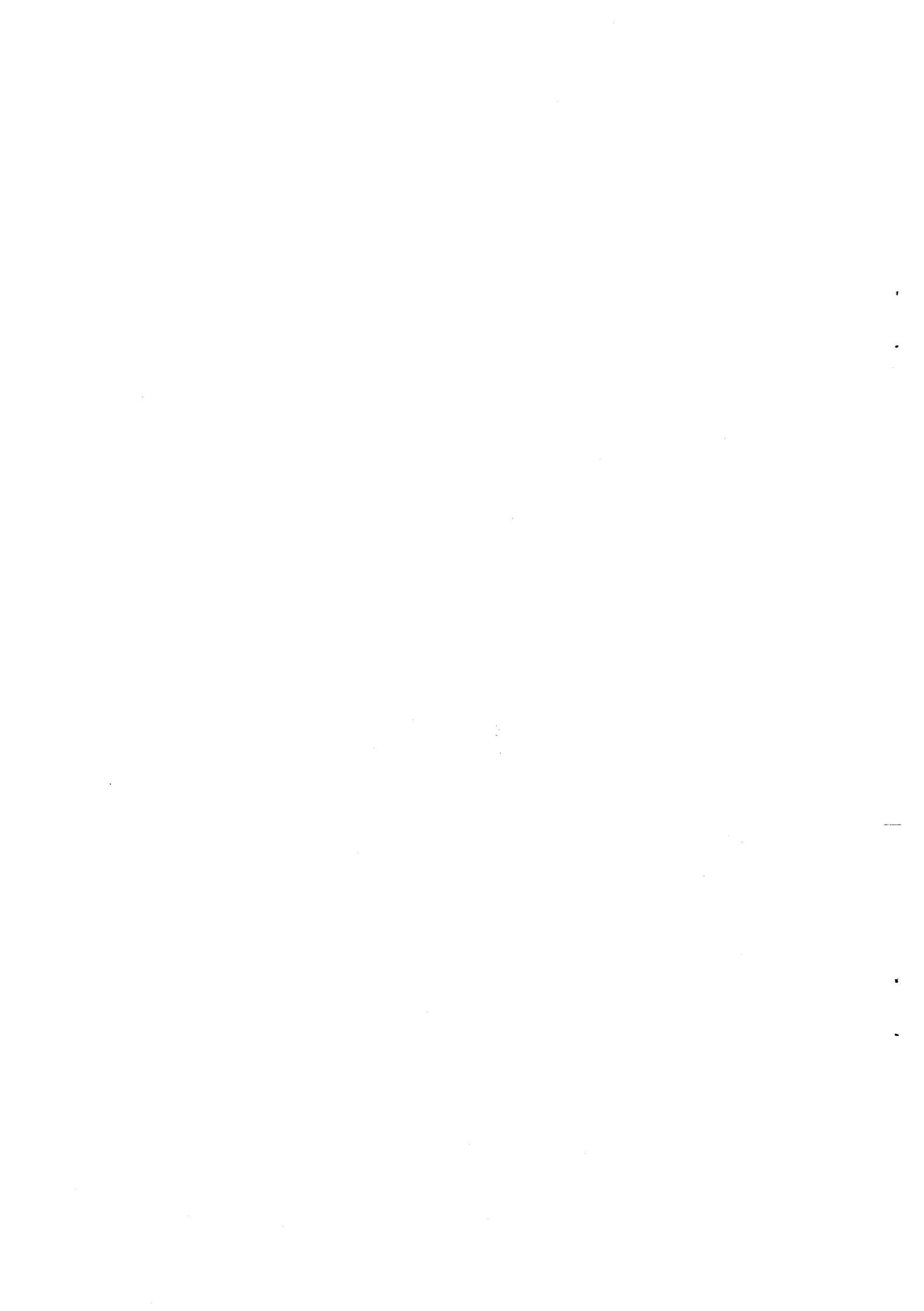
**Section 1 Service Overview**

**Section 2 Replacement of Mechanical Parts**

**Section 3 Mechanical Alignment**

**Section 4 Replacement of Circuit Boards**

**Section 5 Electrical Alignment**



## Section 1

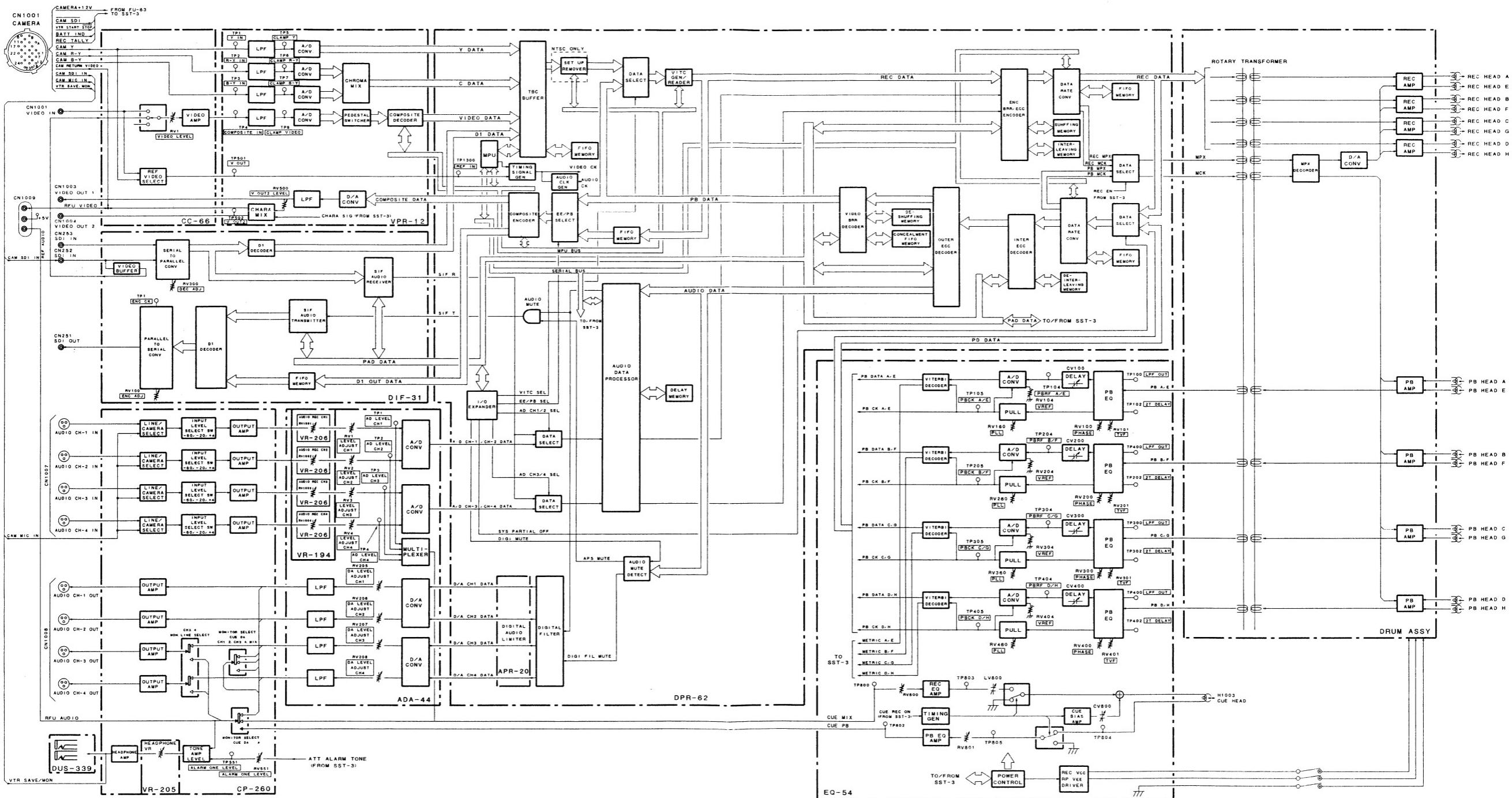
### Block Diagrams

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AUDIO	CP-260	Audio Input/Output, Panel Switches	1-8	
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DIGITAL PROCESS	DPR-62	Digital Data Processor (Encode/Decode, Error Correction) Ref CK Generator, Data Rate Converter Rec Current Control, Rec Envelope Detector	1-10	
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## **OVERALL BLOCK (1/2)**

OVERALL BLOCK (1/2)

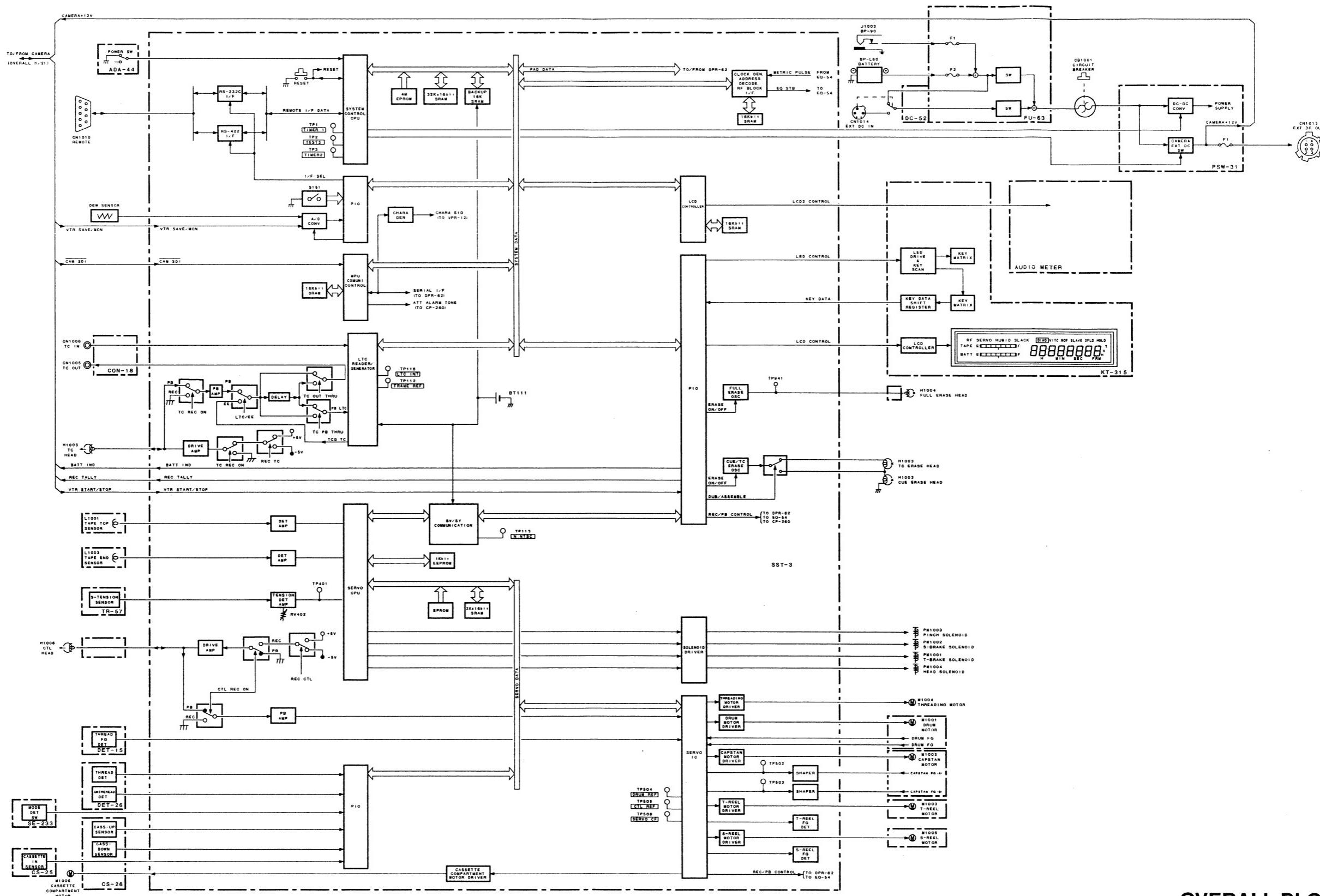


## OVERALL BLOCK (1/2)

DVW-250/250P

## OVERALL BLOCK (2/2)

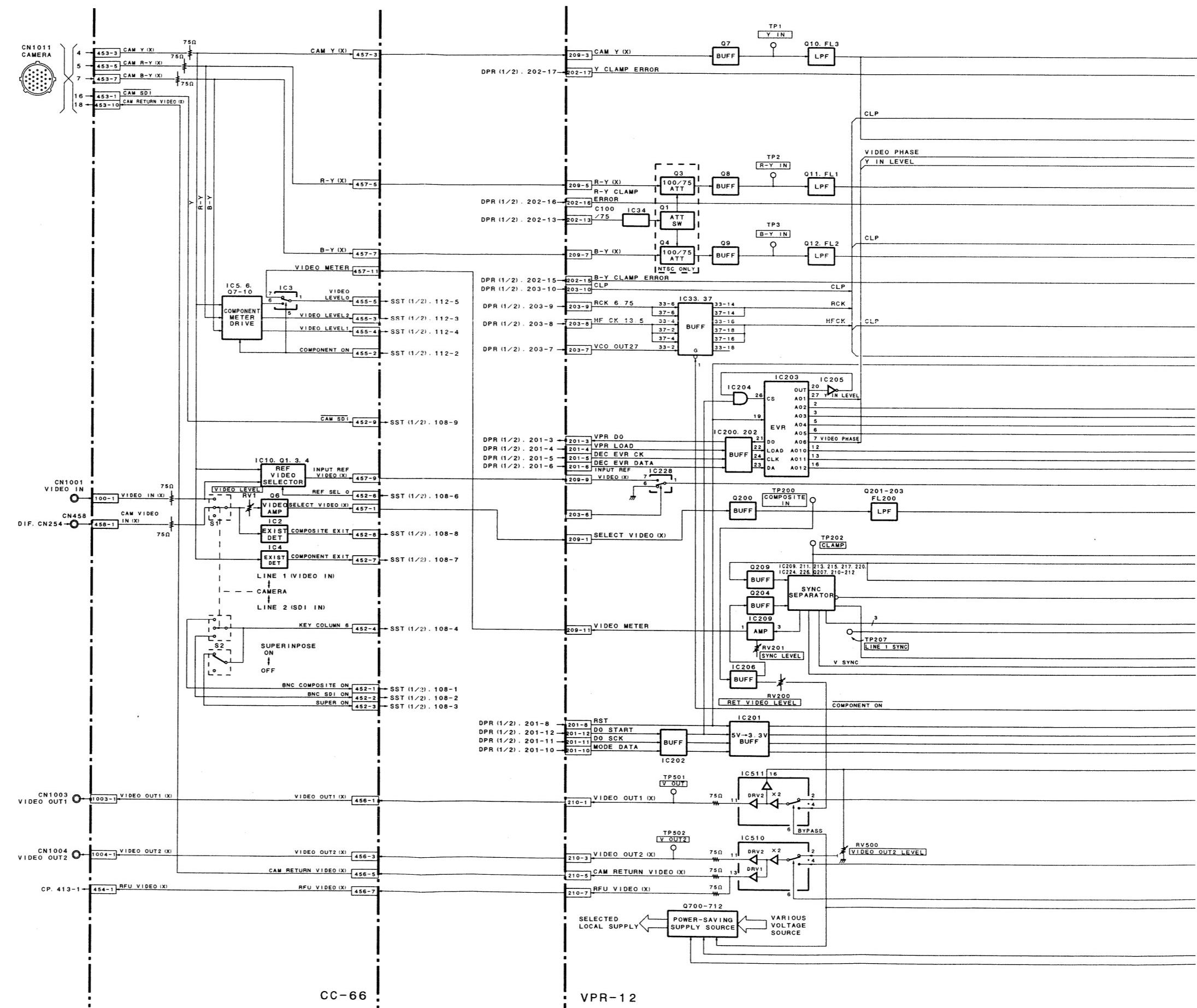
## OVERALL BLOCK (2/2)



OVERALL BLOCK (2/2)

DVW-250/250P

**VIDEO SIGNAL PROCESSING**      **VIDEO SIGNAL PROCESSING**

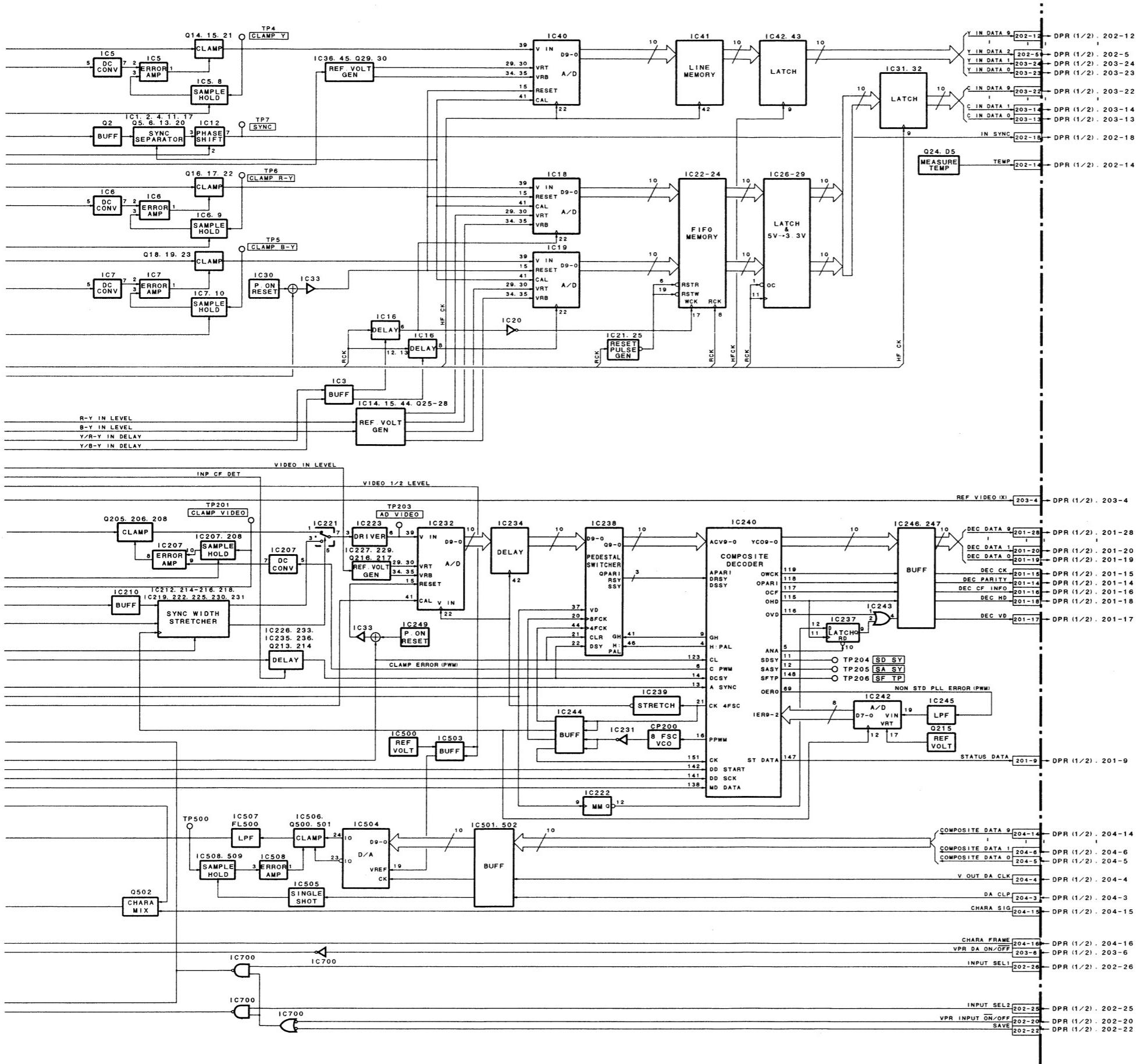


CC-66

VPR-12

## **VIDEO SIGNAL PROCESSING**

## **VIDEO SIGNAL PROCESSING**

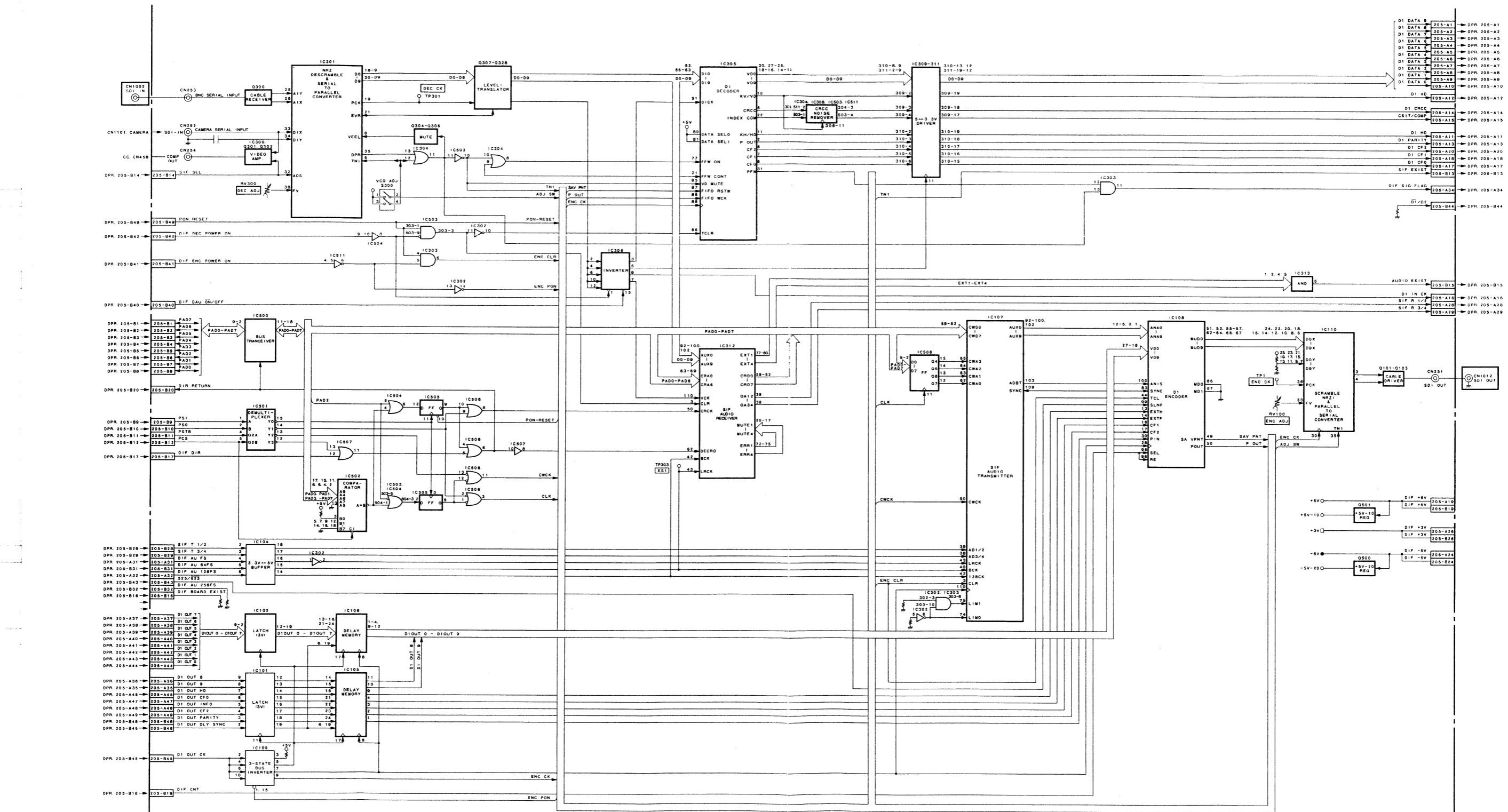


## VIDEO SIGNAL PROCESSING

DVW-250/250P

## **SDI SIGNAL PROCESSING**

## **SDI SIGNAL PROCESSING**

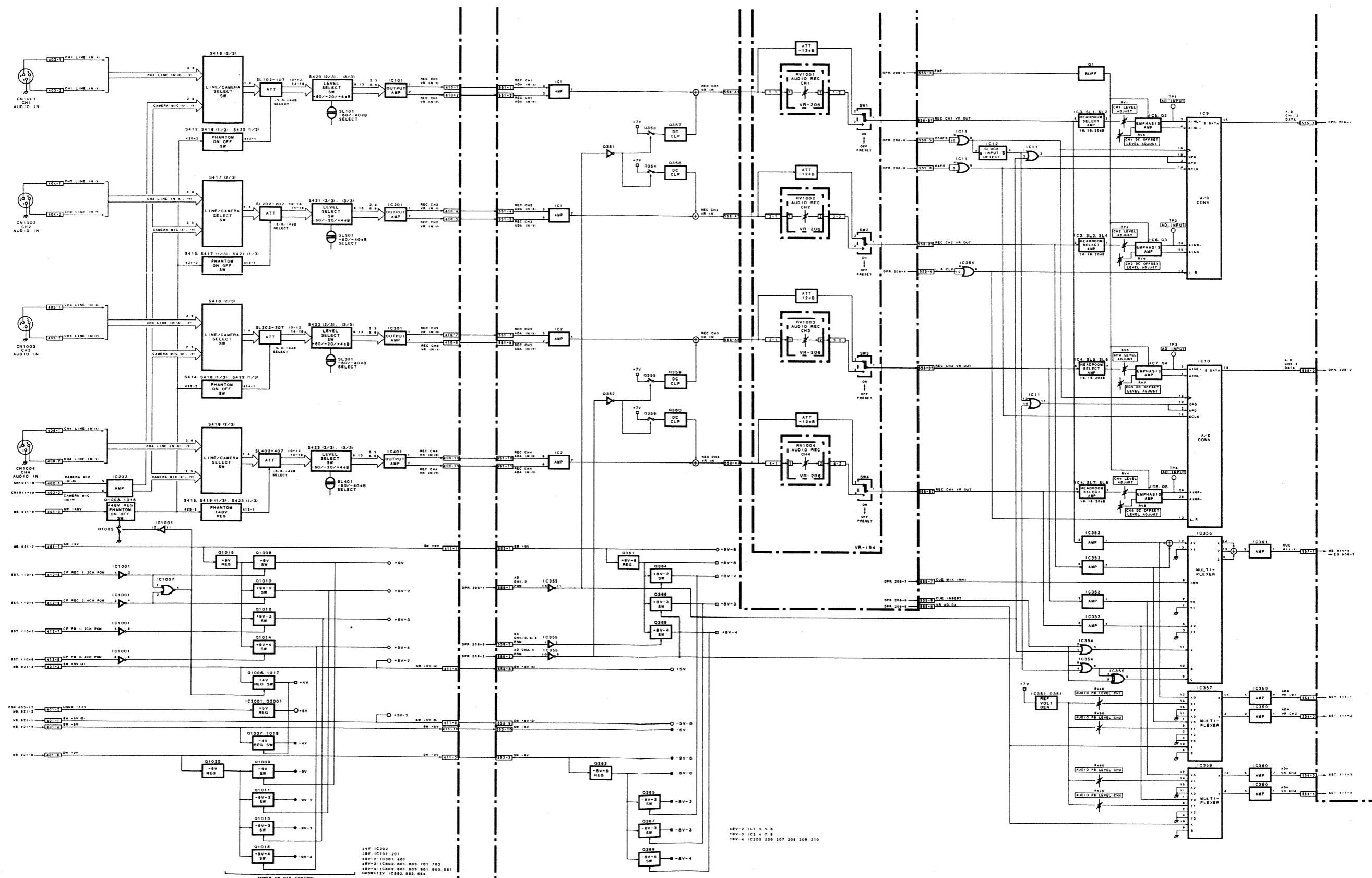


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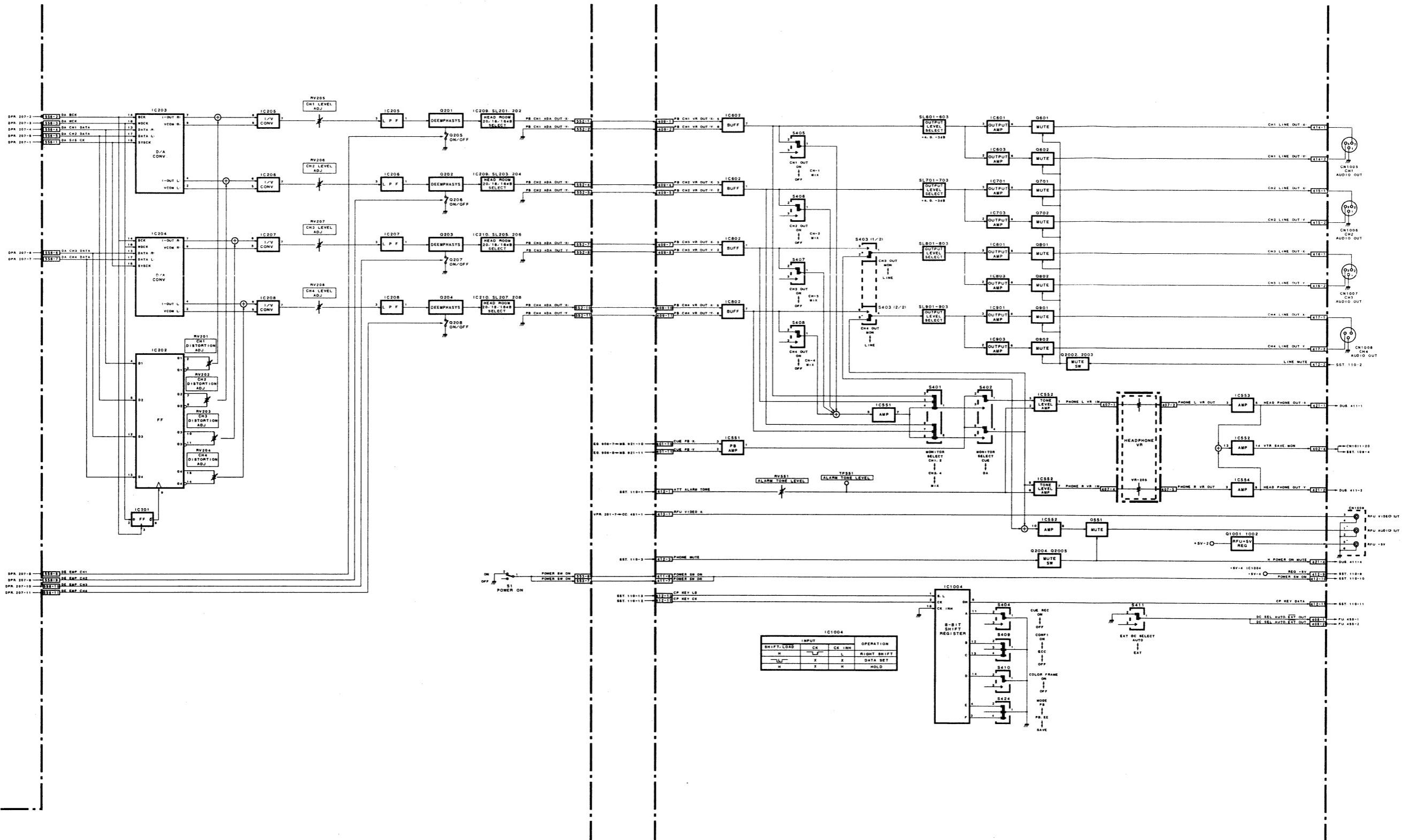


# AUDIO SIGNAL PROCESSING



## AUDIO SIGNAL PROCESSING

## AUDIO SIGNAL PROCESSING



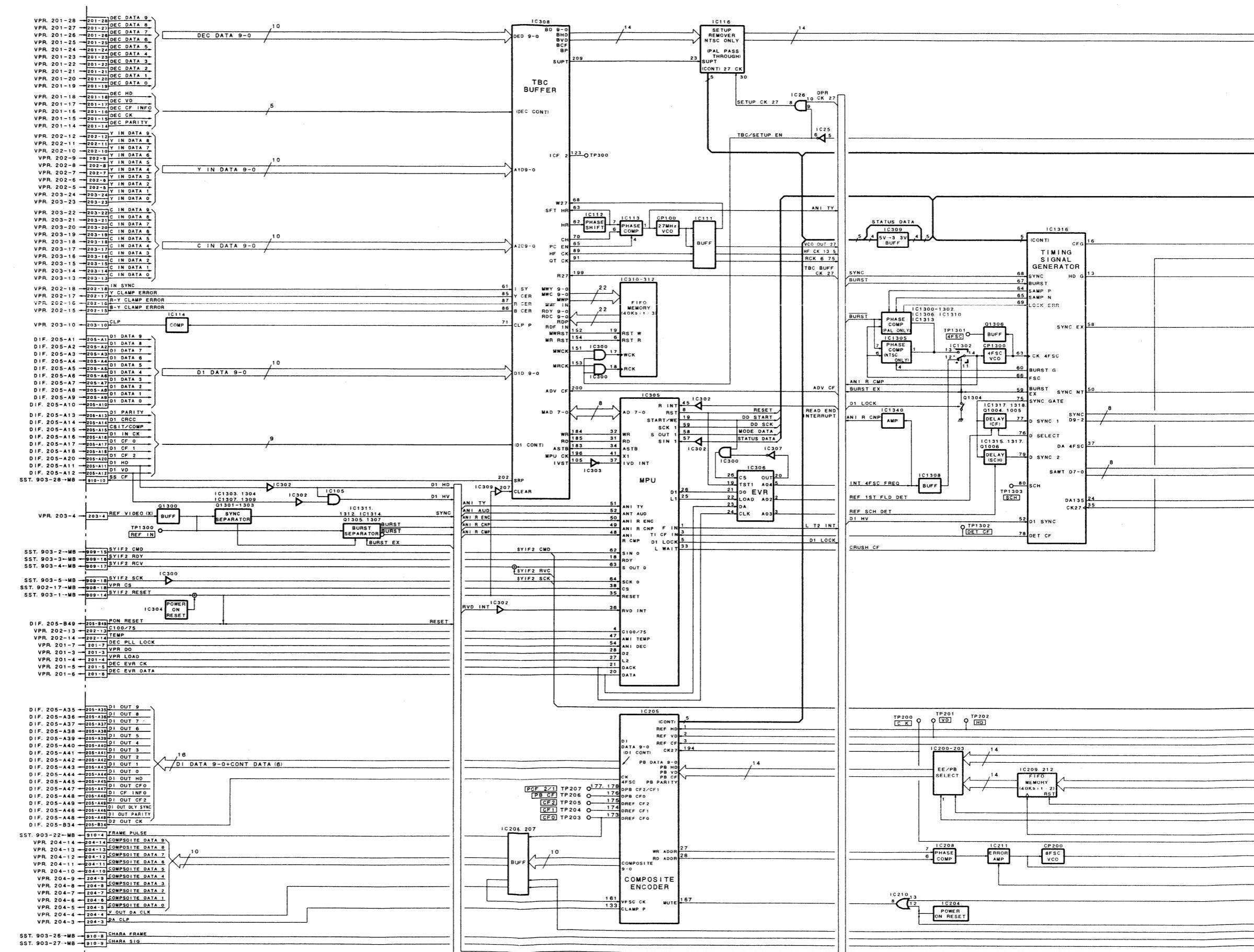
CP-260 (2/2)

## AUDIO SIGNAL PROCESSING

DVW-250/250P

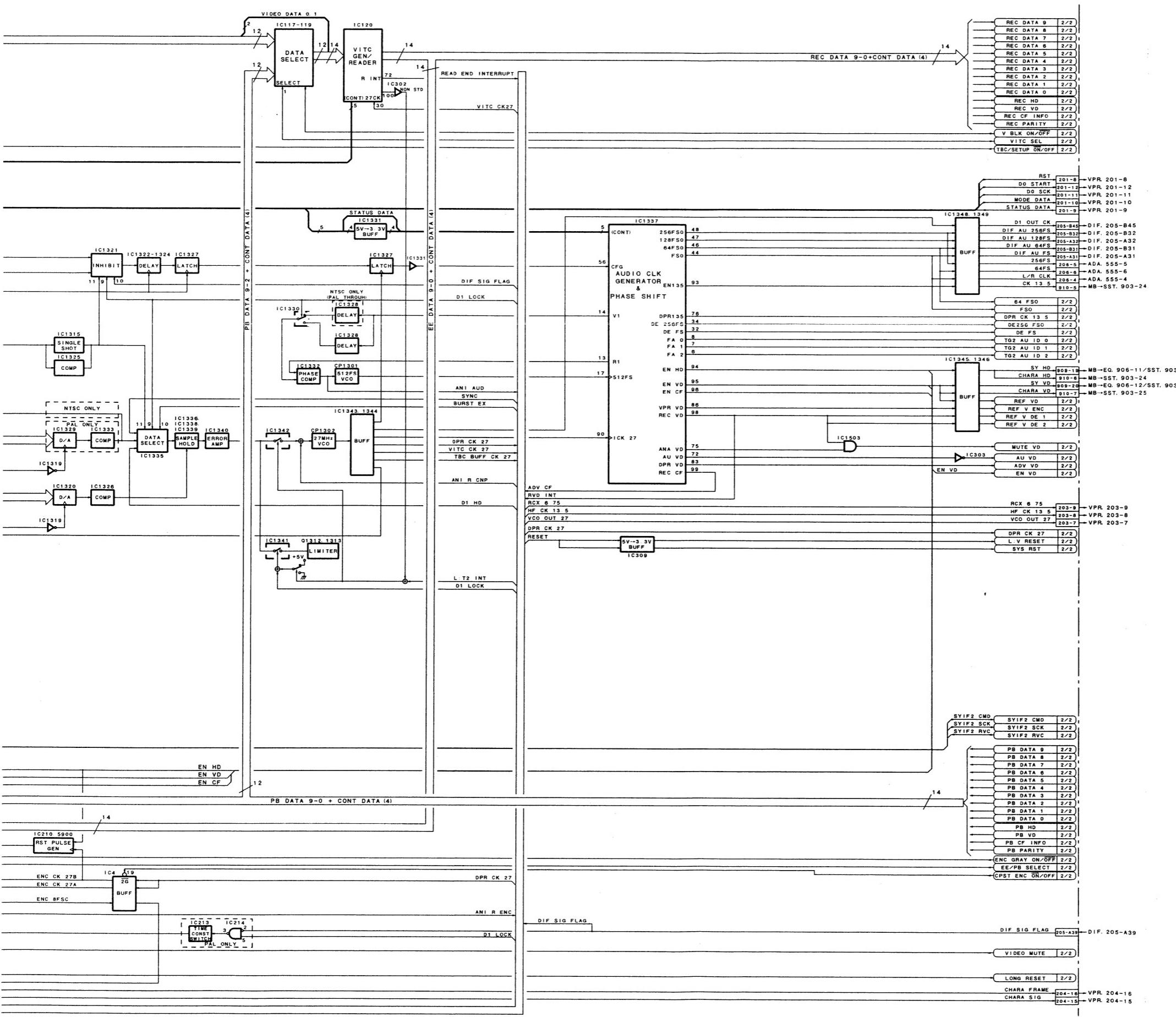
## DIGITAL VIDEO PROCESSING

## DIGITAL VIDEO PROCESSING



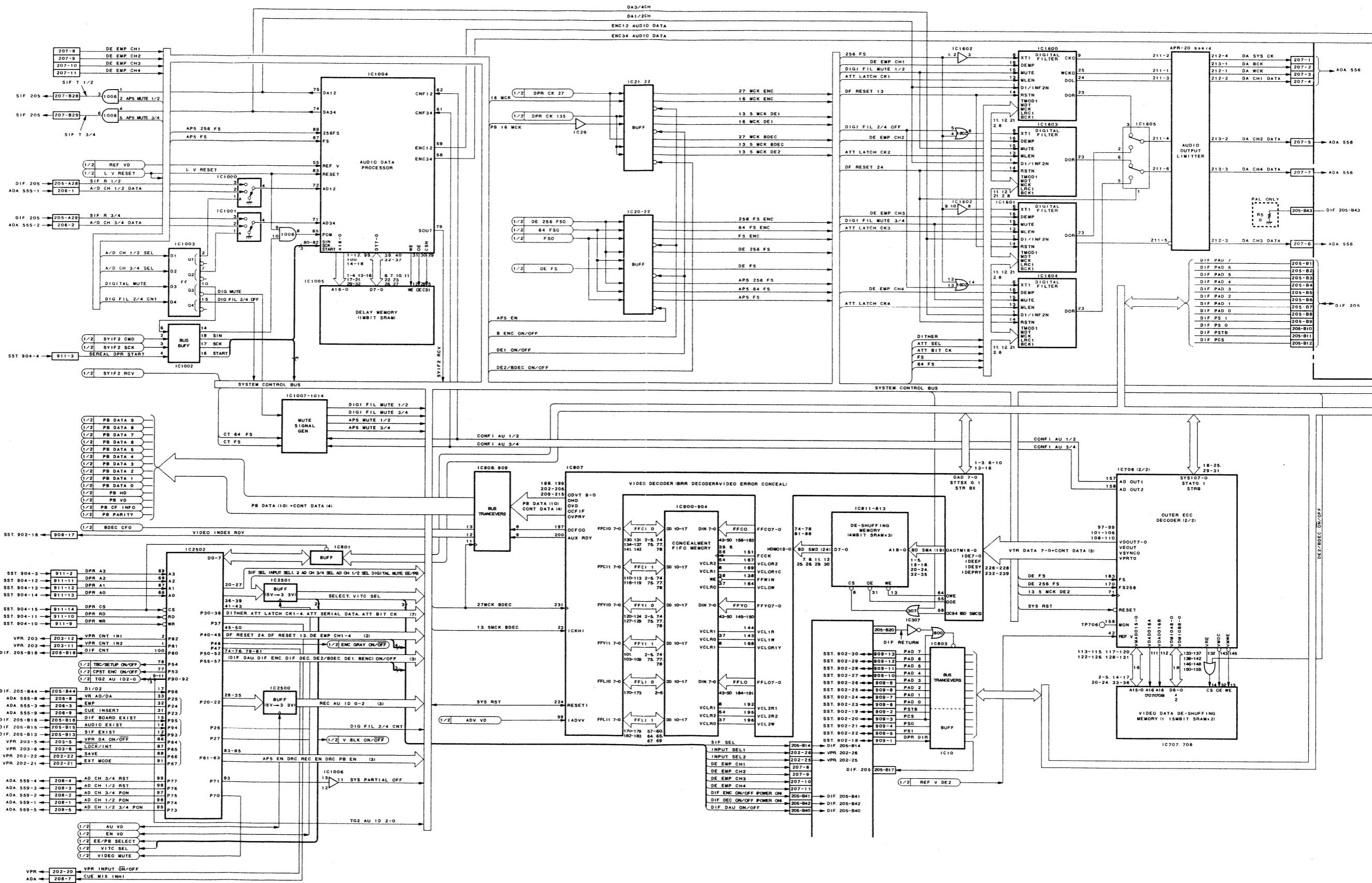
## DIGITAL VIDEO PROCESSING

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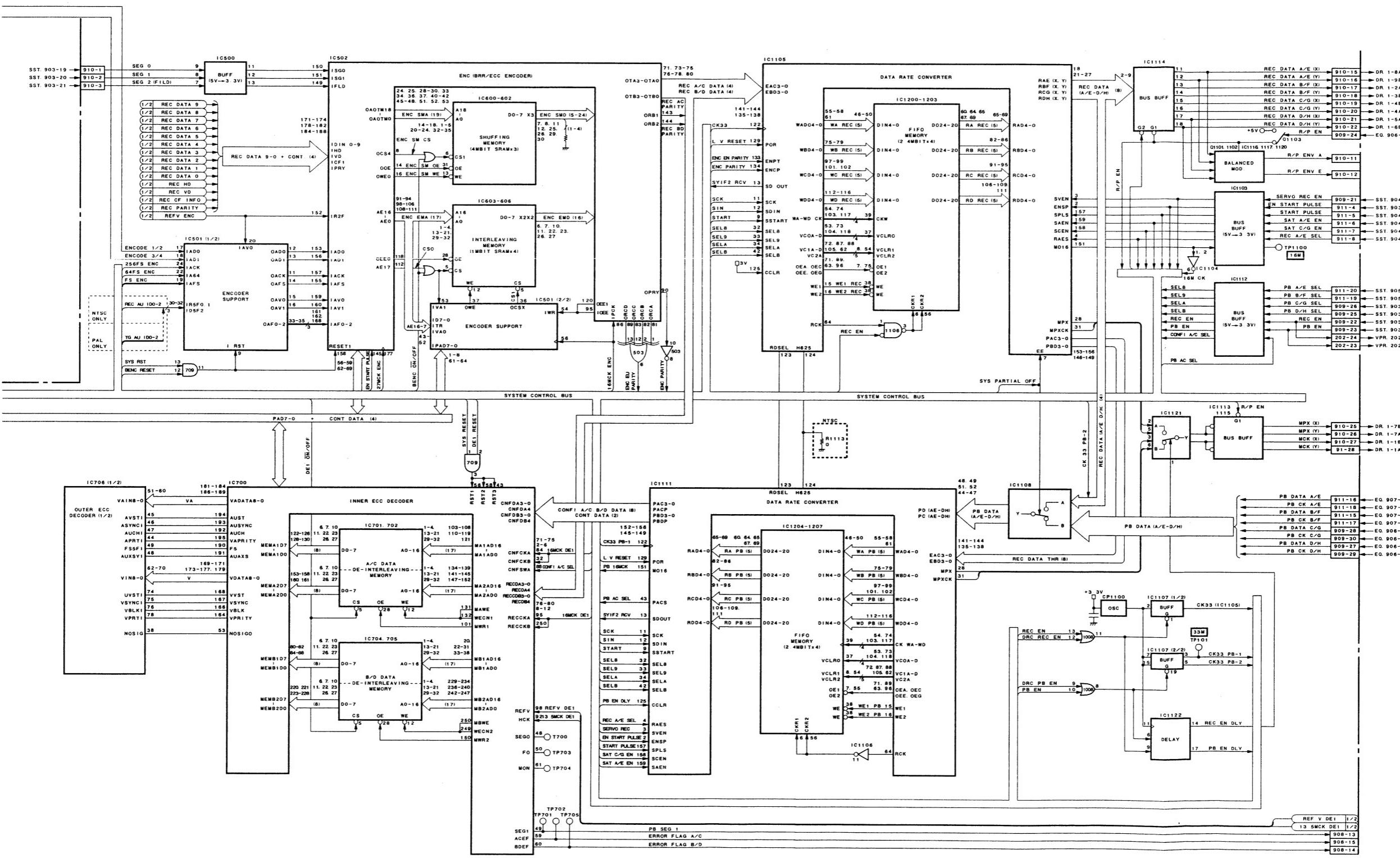
## DIGITAL VIDEO PROCESSING

# DIGITAL DATA PROCESSING



## DIGITAL DATA PROCESSING

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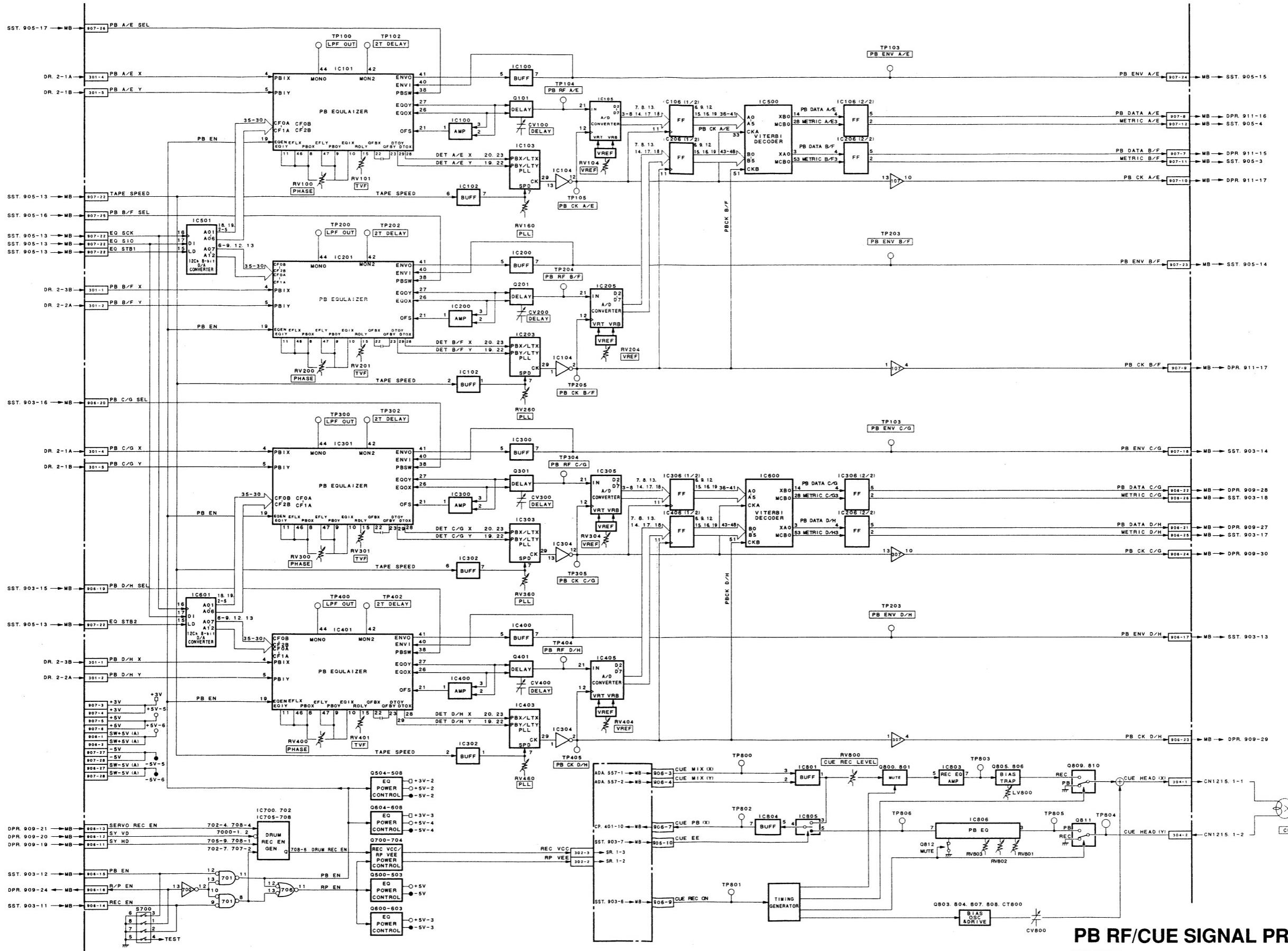


## DIGITAL DATA PROCESSING

DVW-250/250P

## PB RF/CUE SIGNAL PROCESSING

## PB RF/CUE SIGNAL PROCESSING

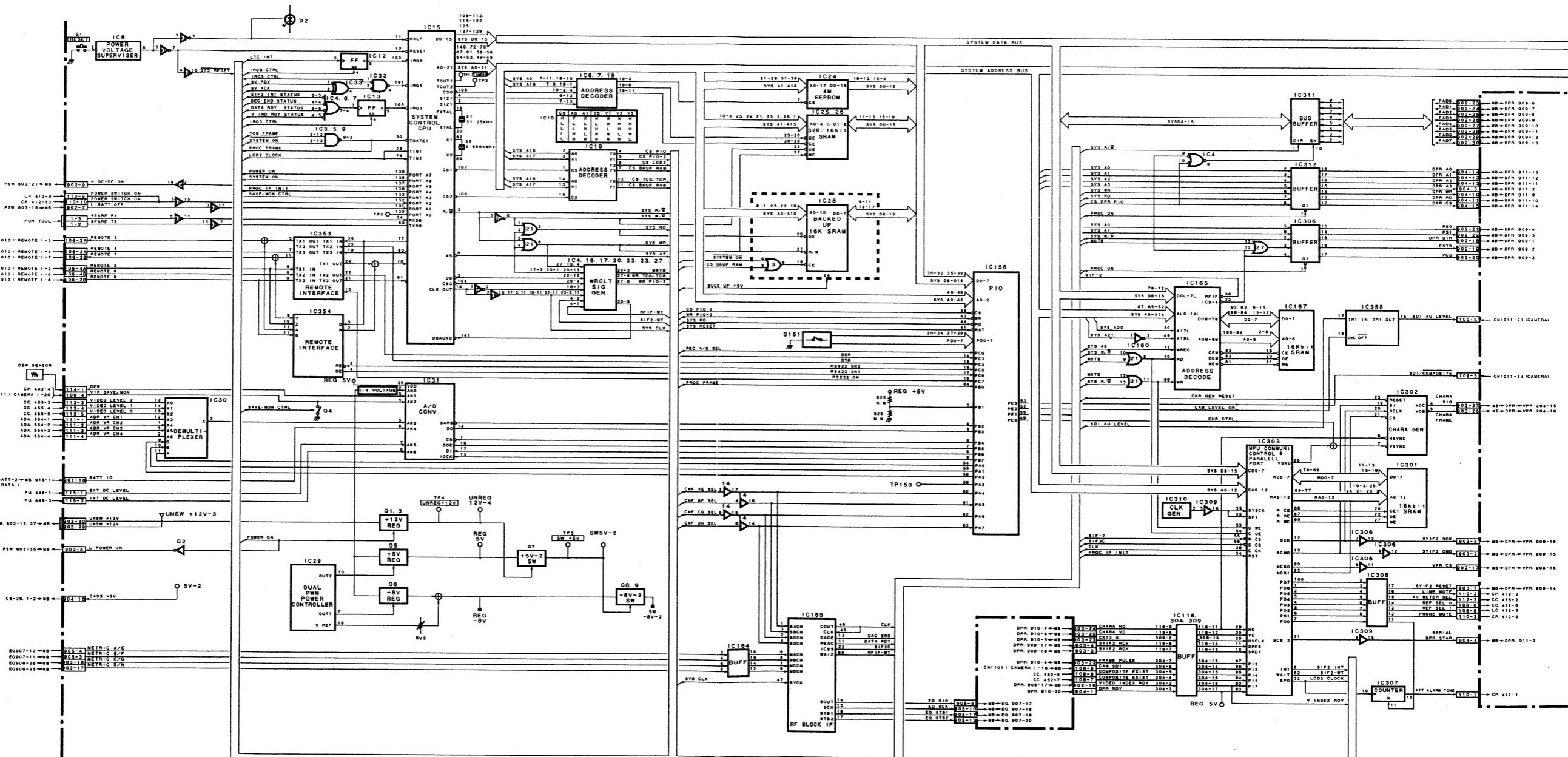


**PB RF/CUE SIGNAL PROCESSING**

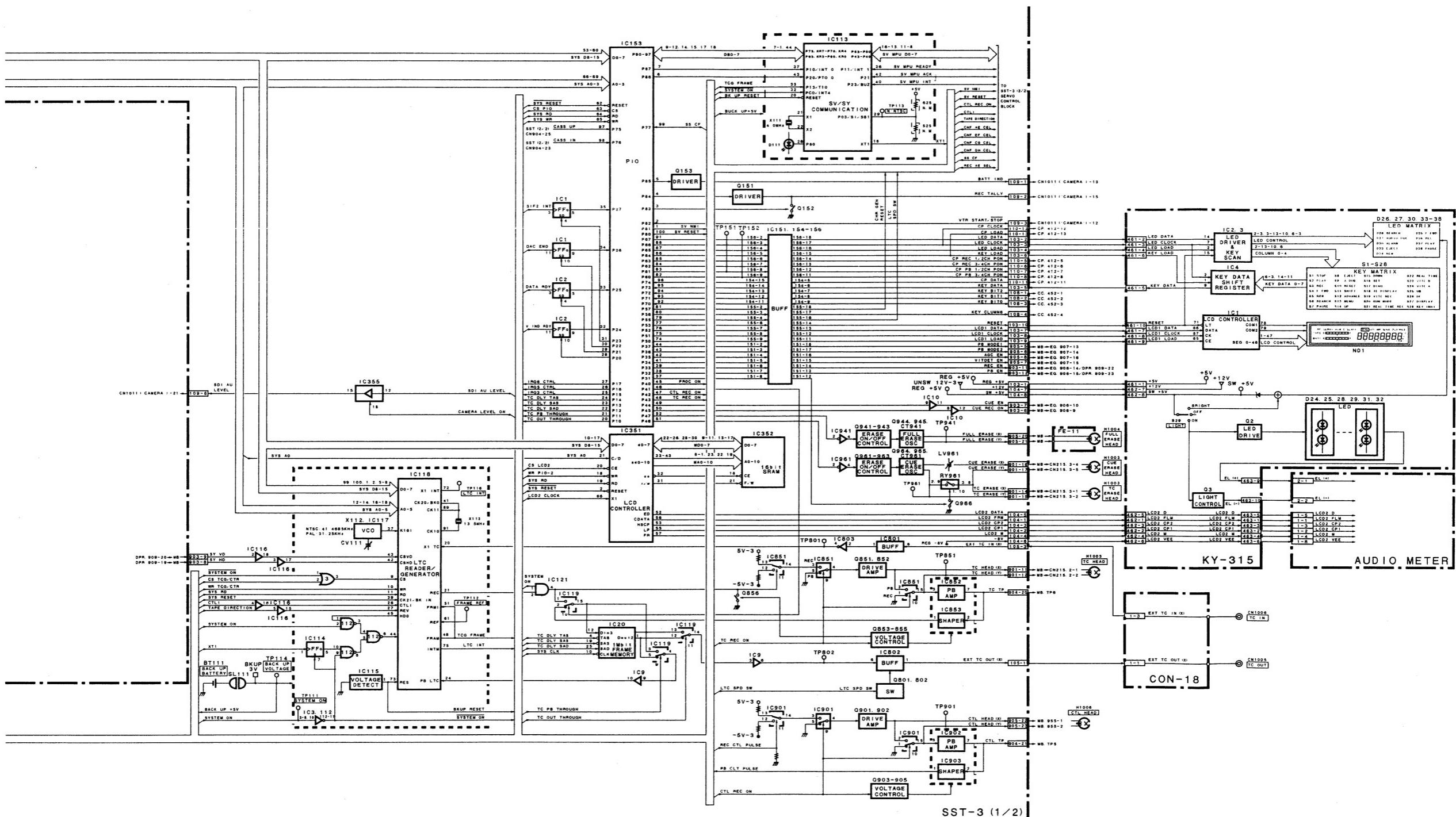
DVW-250/250P



# SYSTEM CONTROL BLOCK SYSTEM CONTROL BLOCK



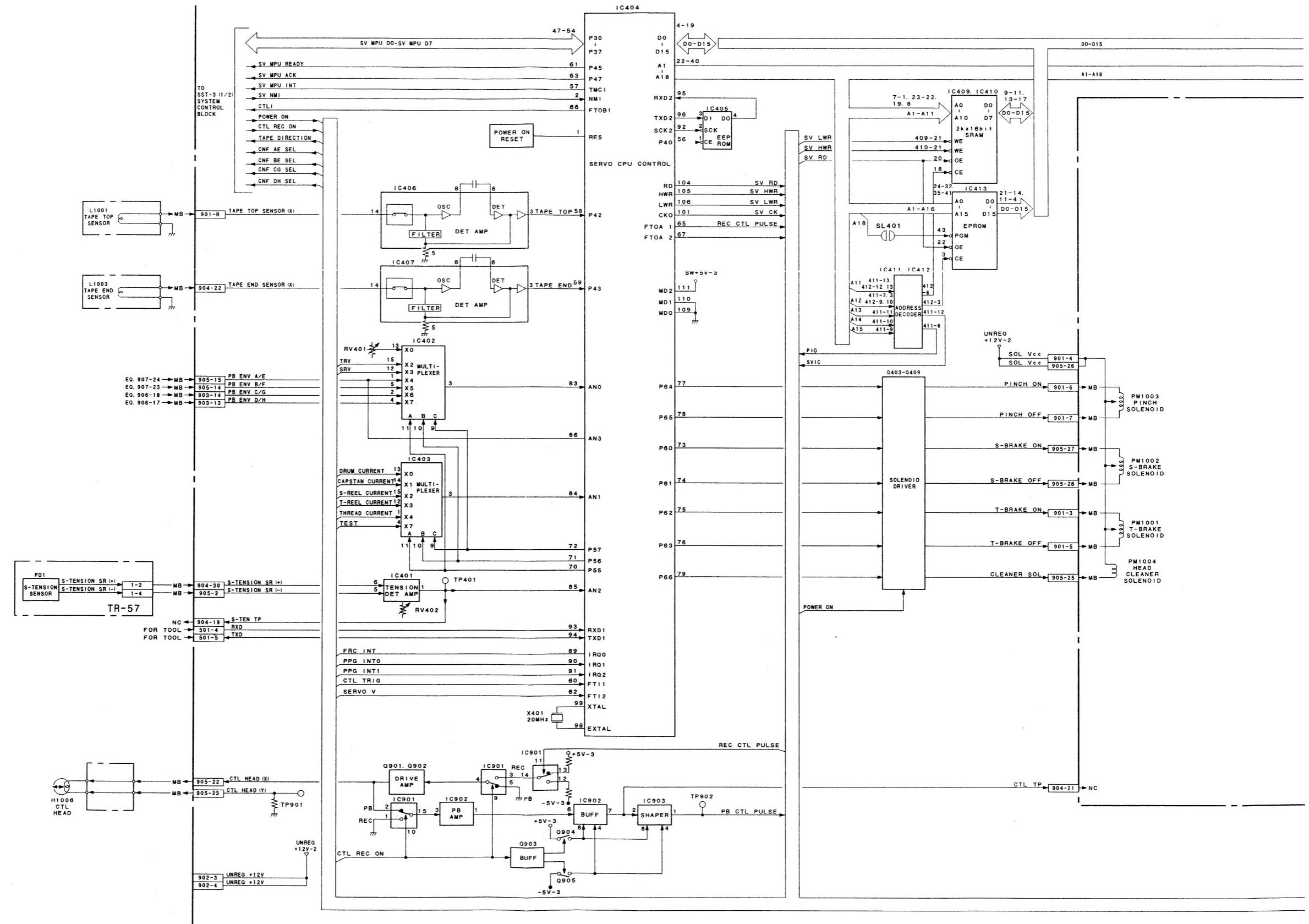
## SYSTEM CONTROL BLOCK



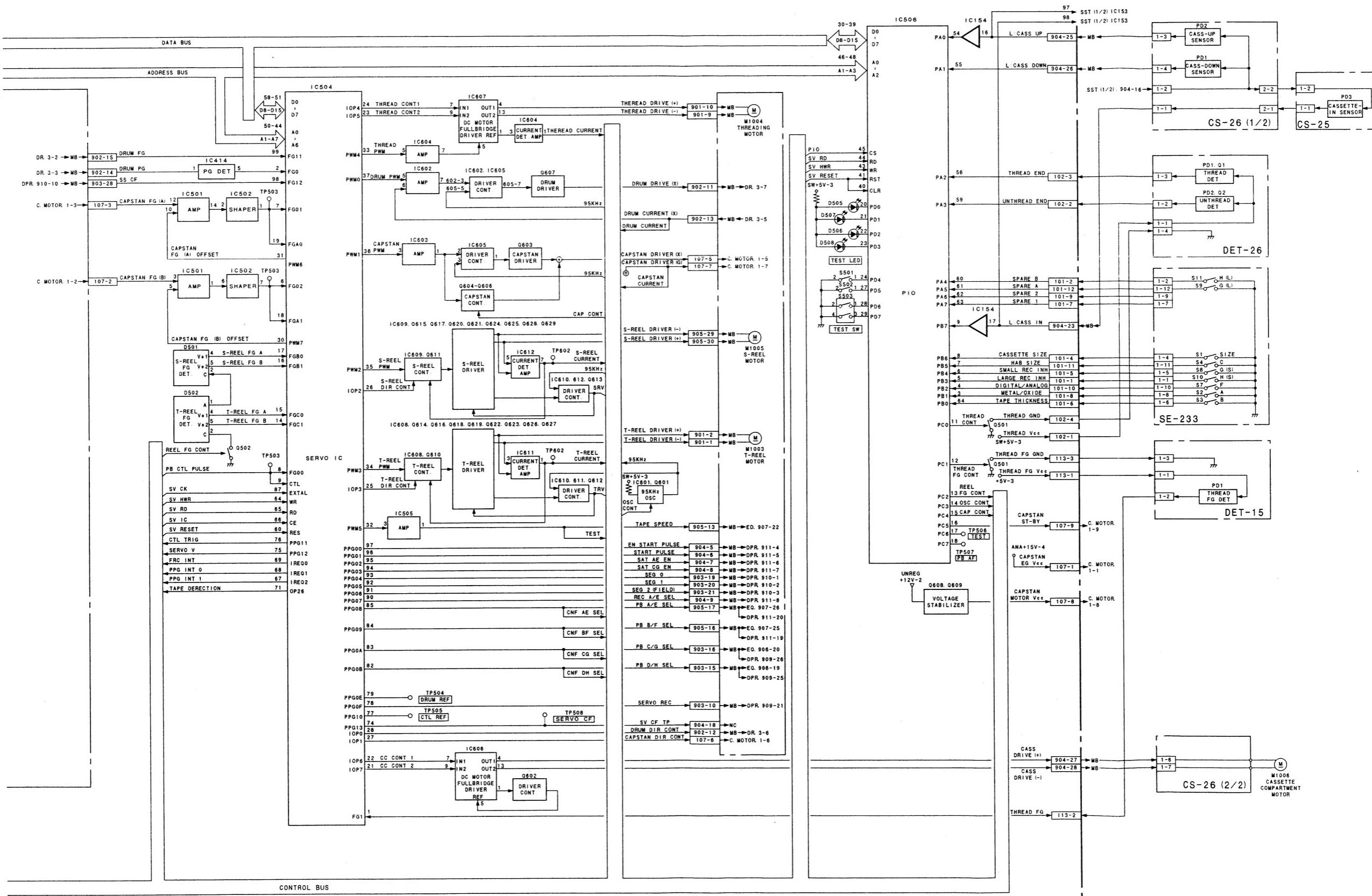
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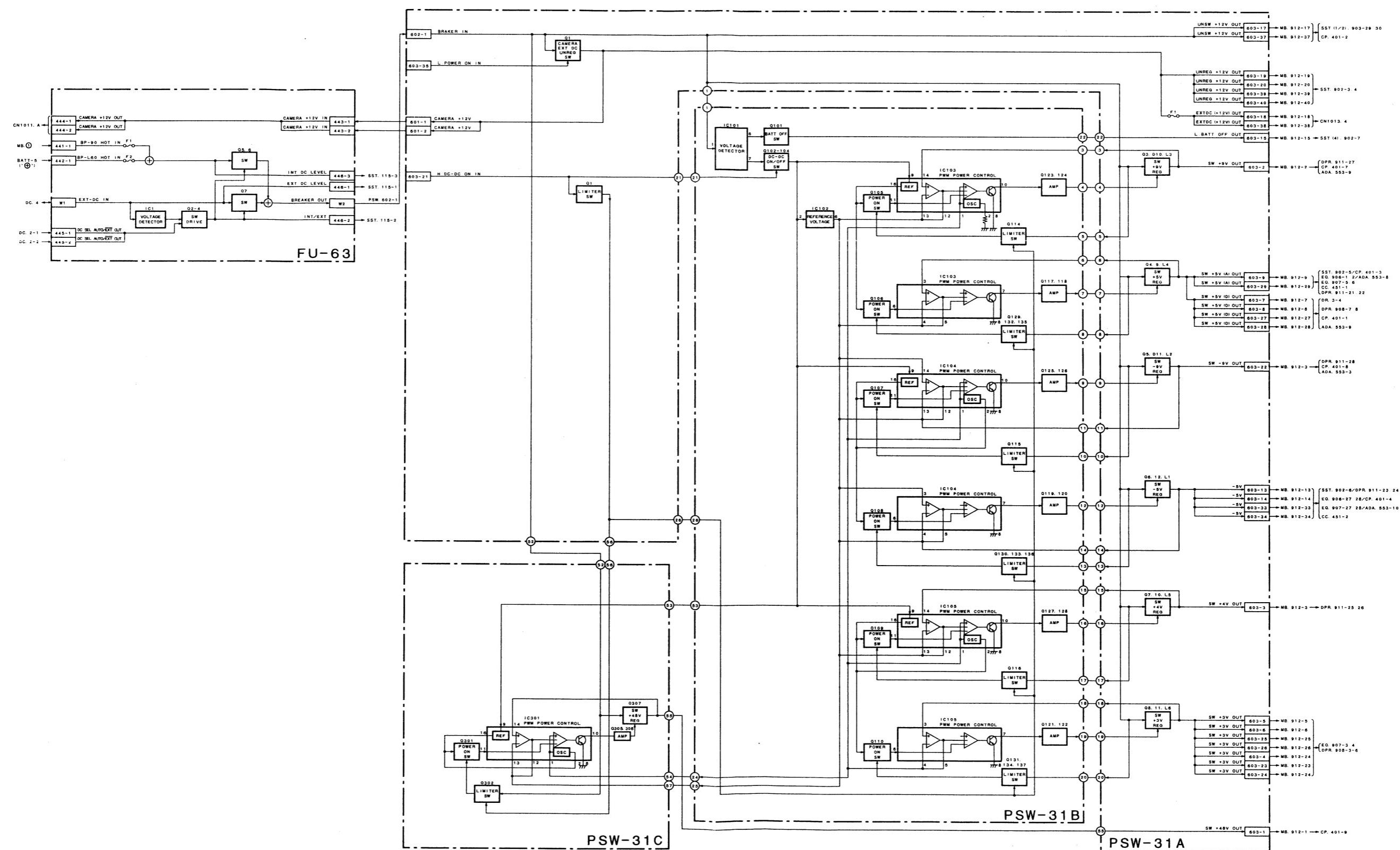
DVW-250/250P

# SERVO CONTROL BLOCK SERVO CONTROL BLOCK



# SERVO CONTROL BLOCK



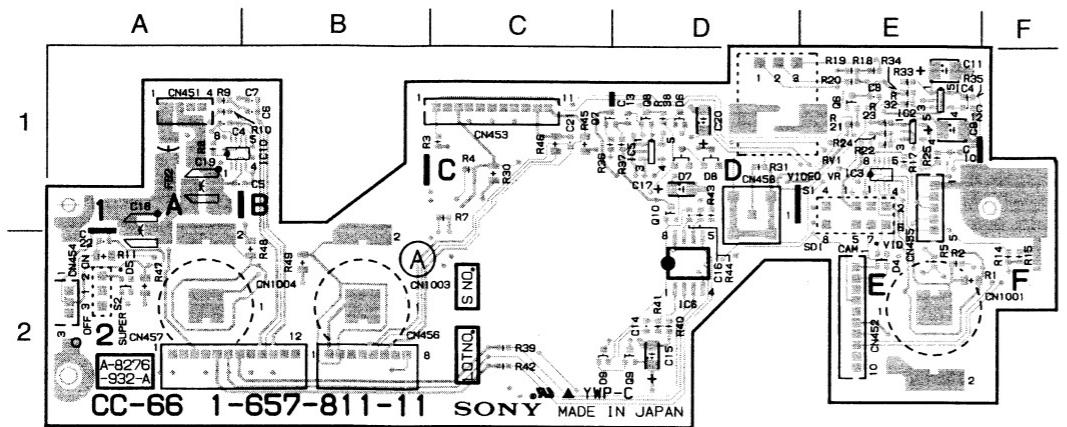


## Section 2

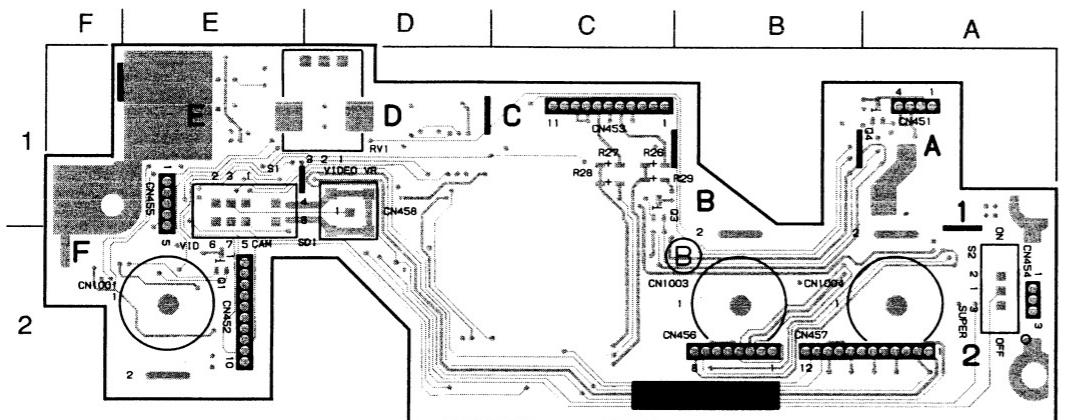
### Board Layouts

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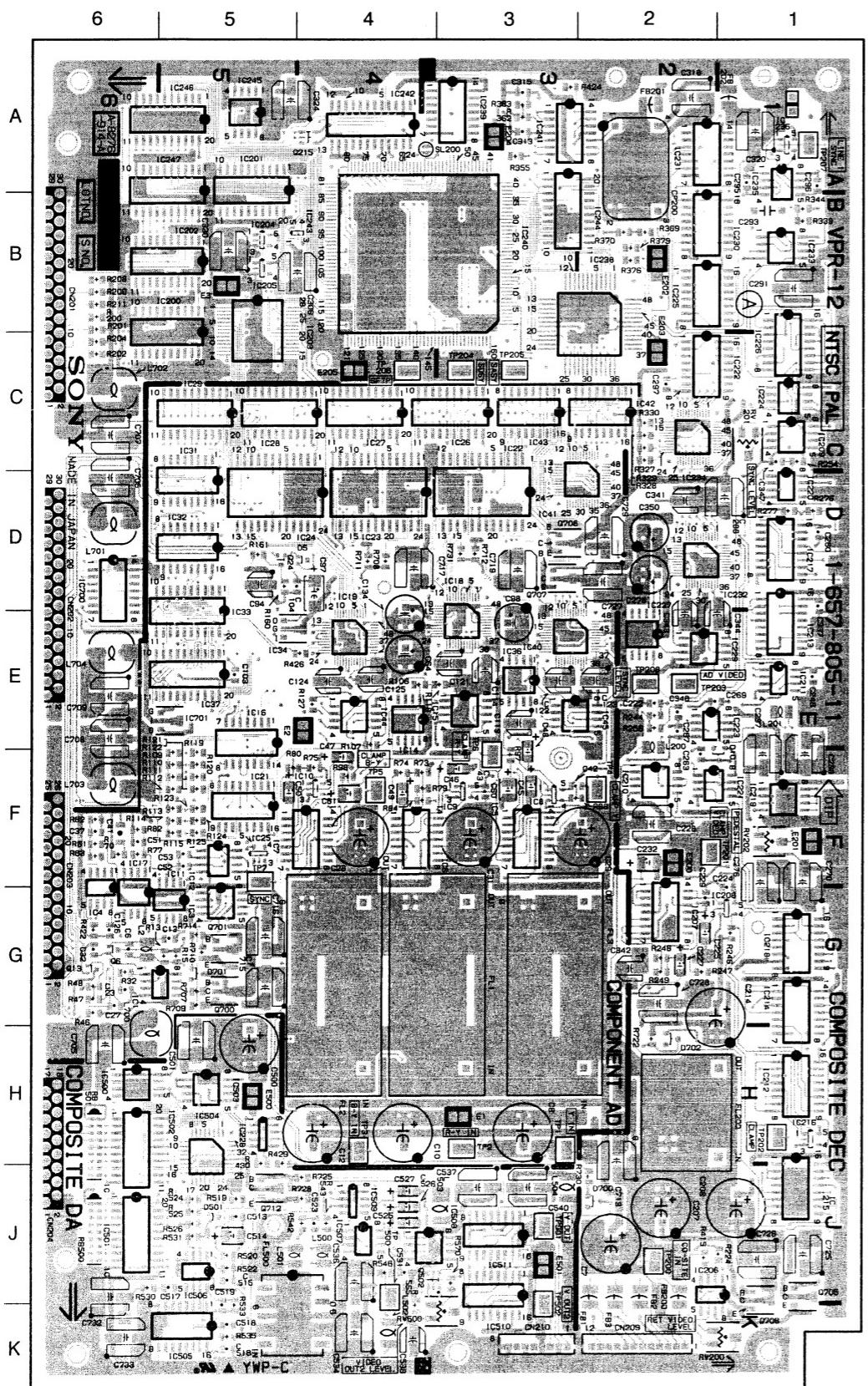


**CC-66** - A SIDE -  
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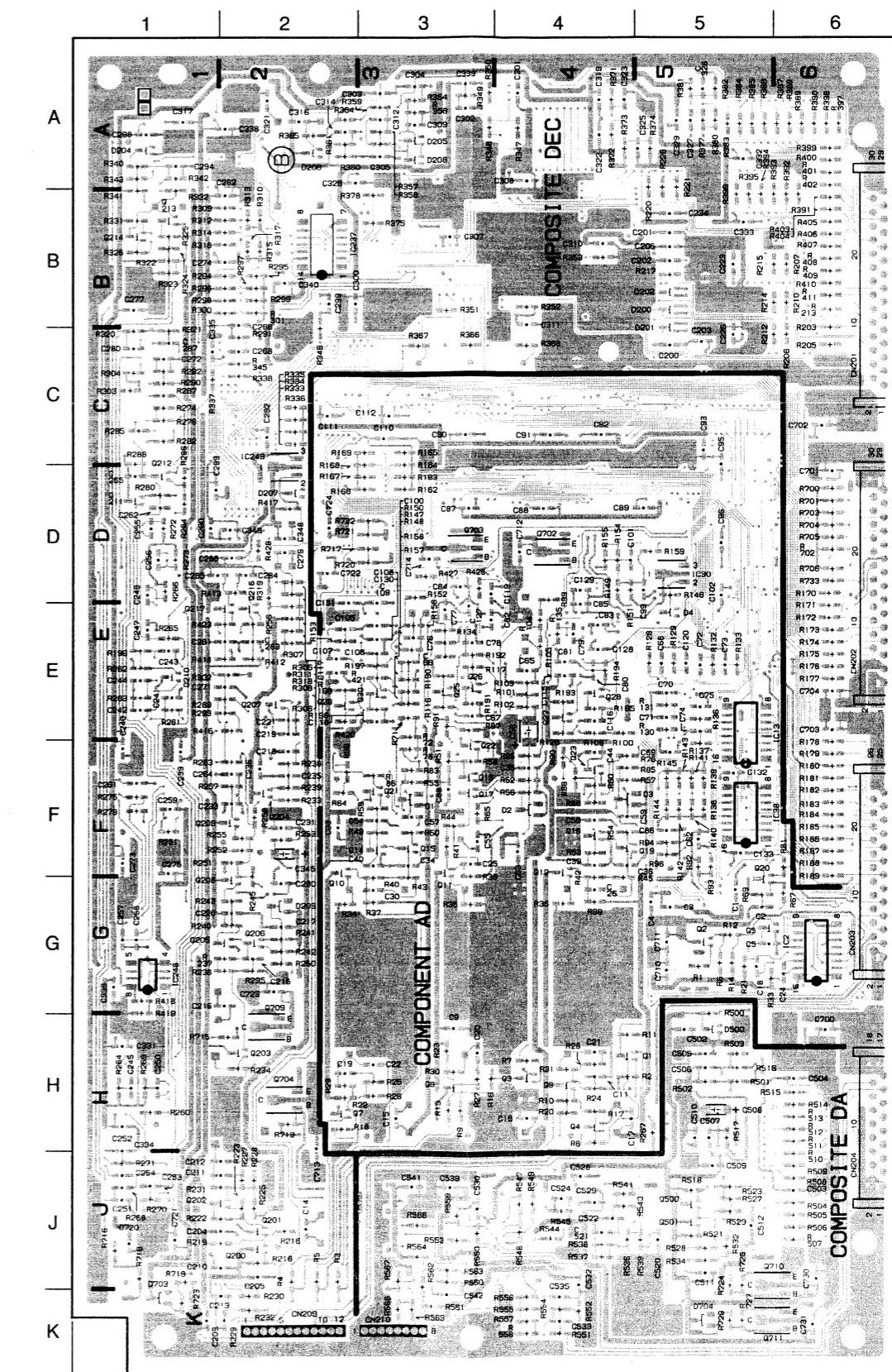


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VPR-12 VPR-12

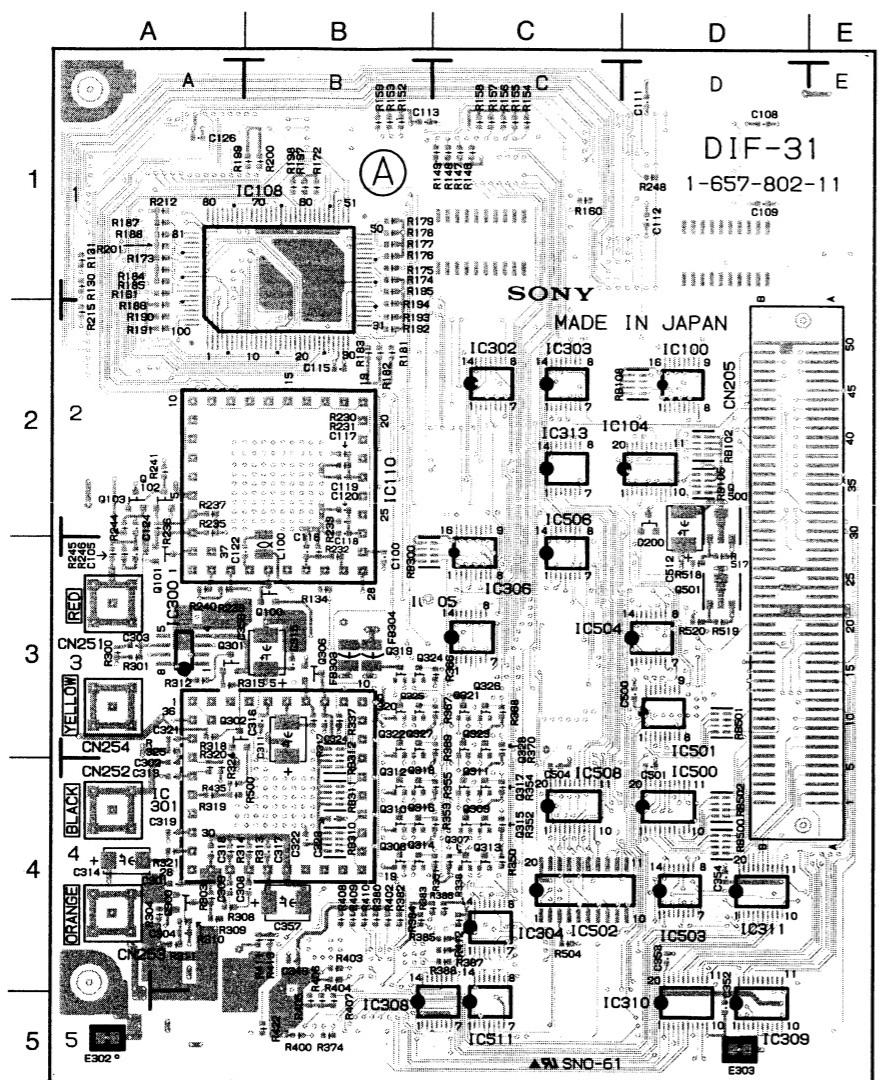


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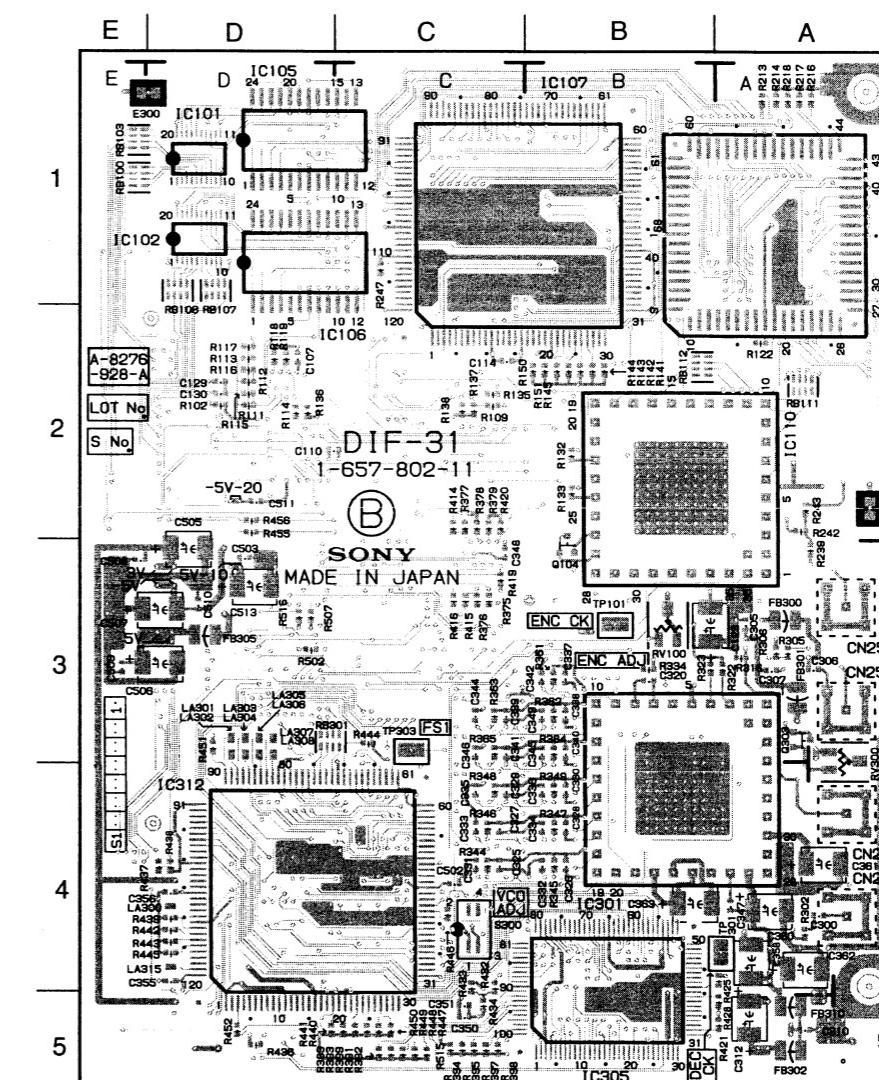


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DIF-31 DIF-31

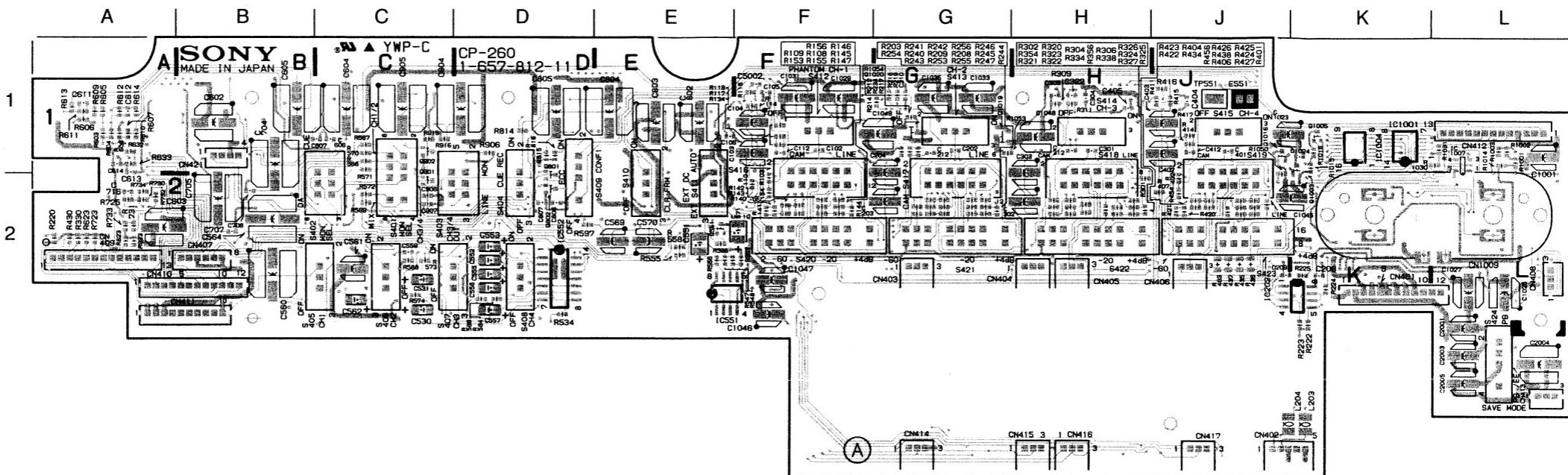


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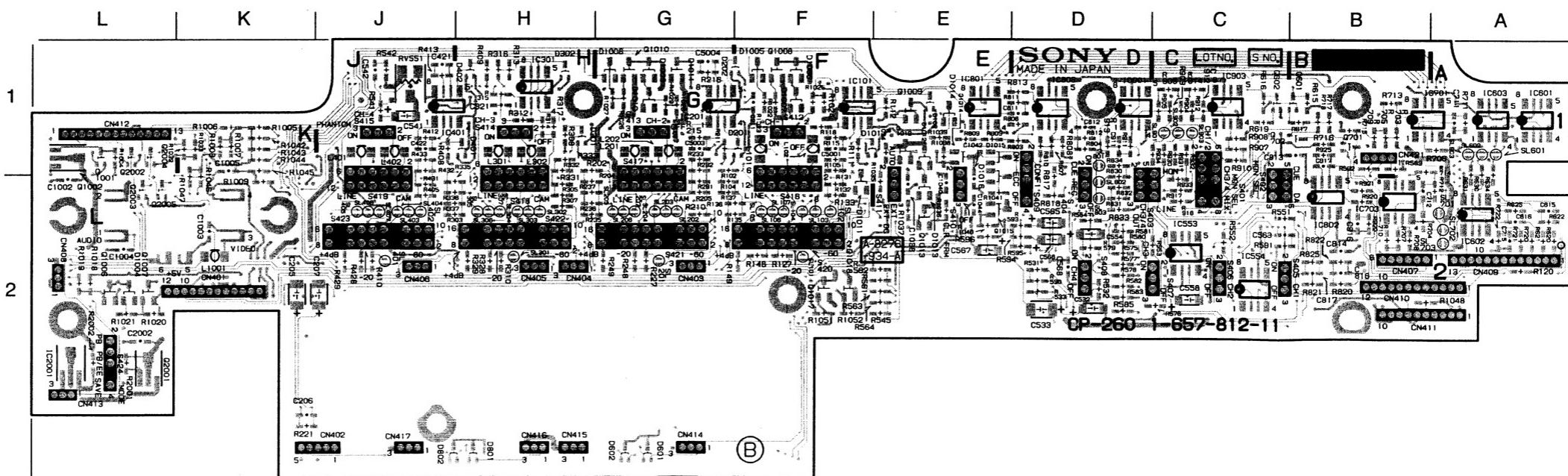


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**CP-260 CP-260**

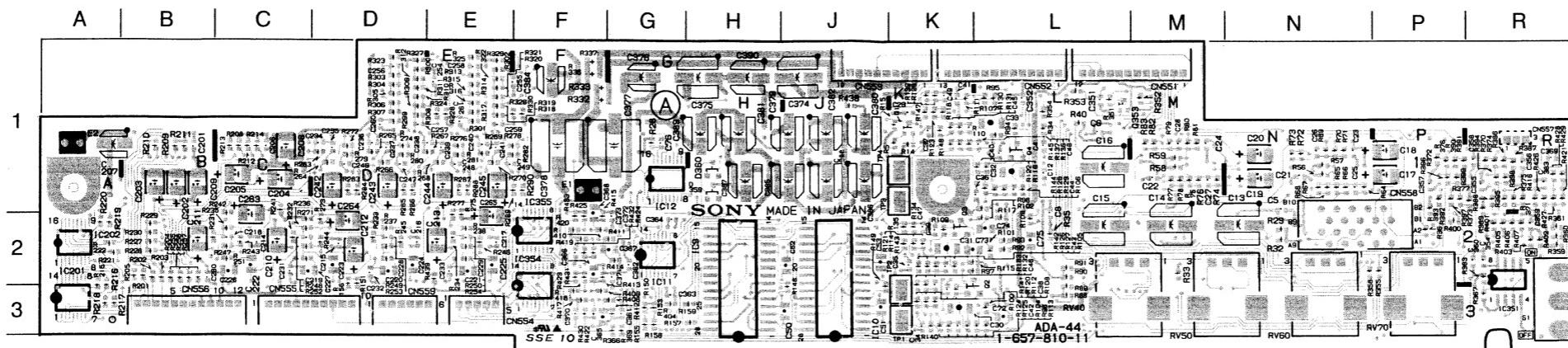


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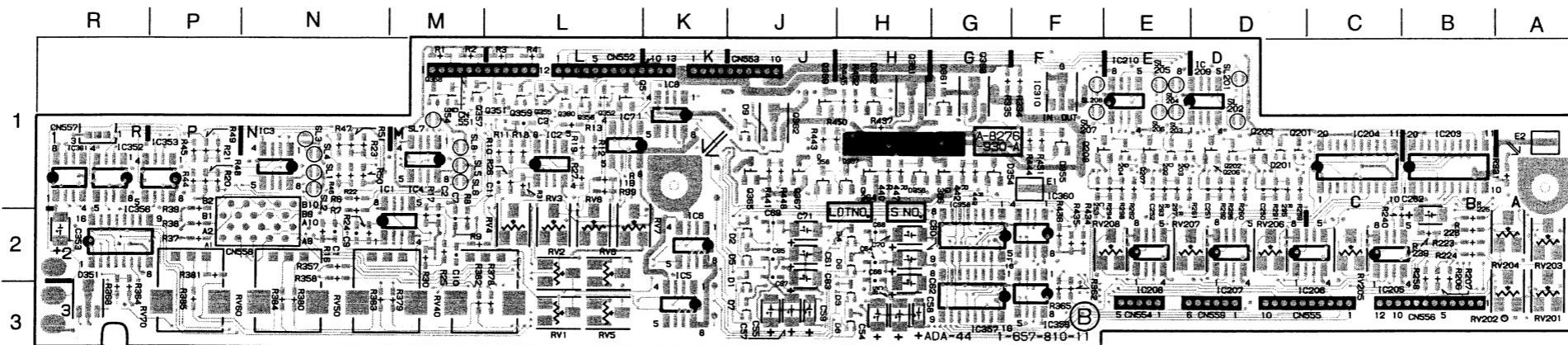


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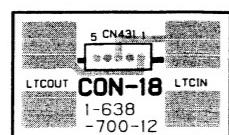
**CON-18, ADA-44 CON-18, ADA-44**



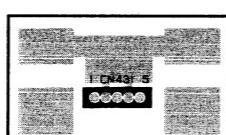
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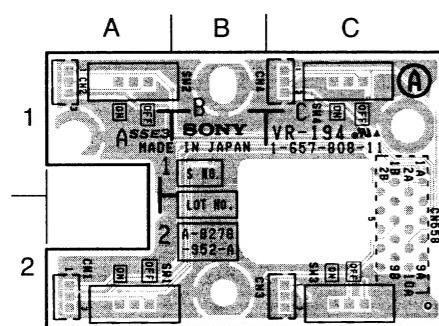
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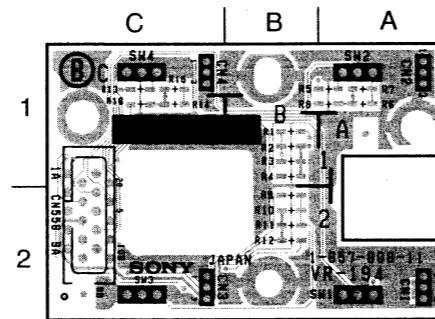
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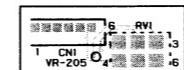
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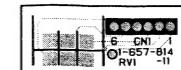
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**VR-194 - B SIDE -**  
1-657-808-11



**VR-205 - A SIDE -**  
1-657-814-11



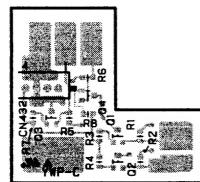
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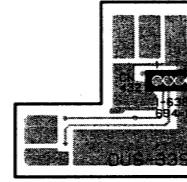
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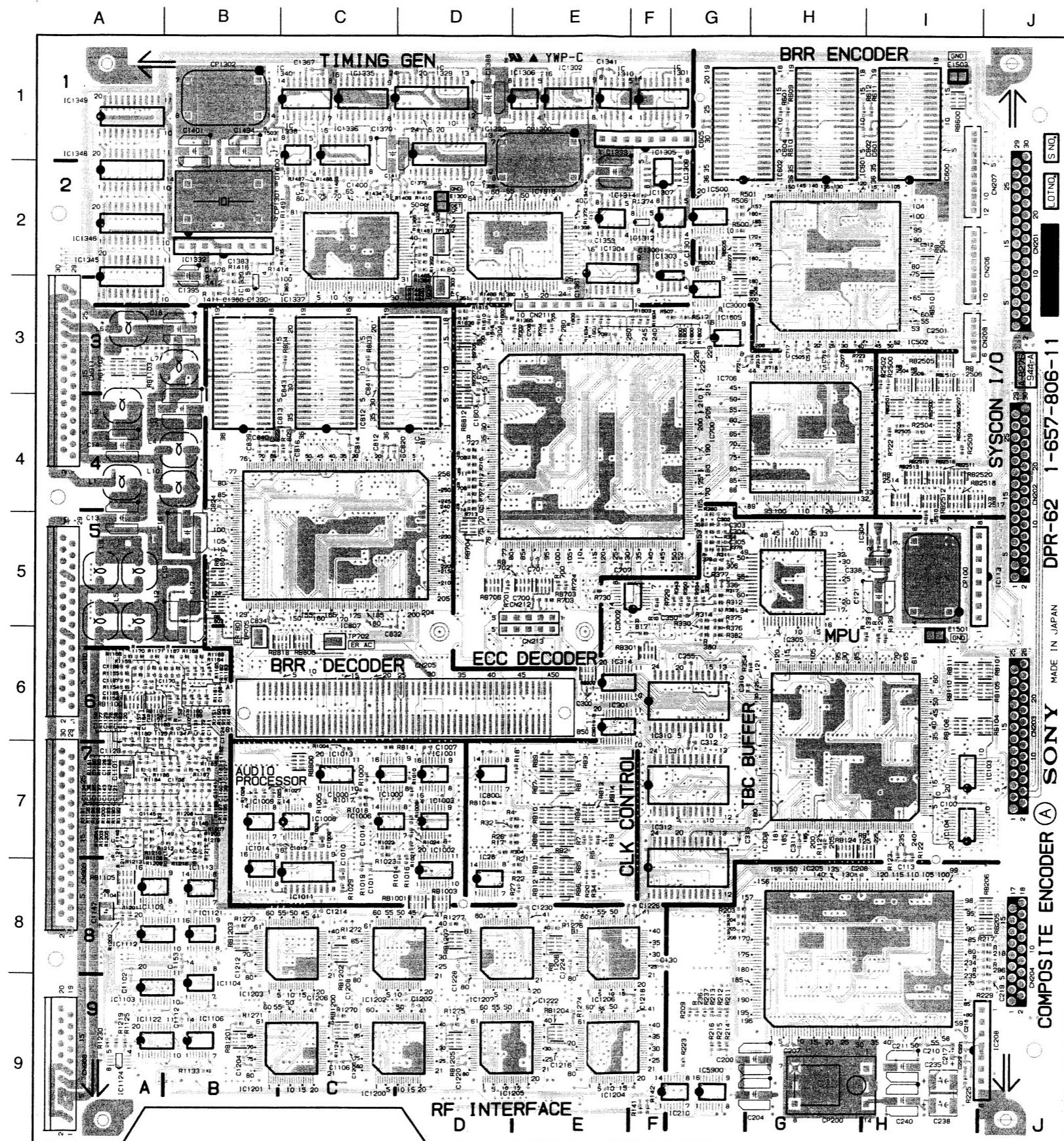
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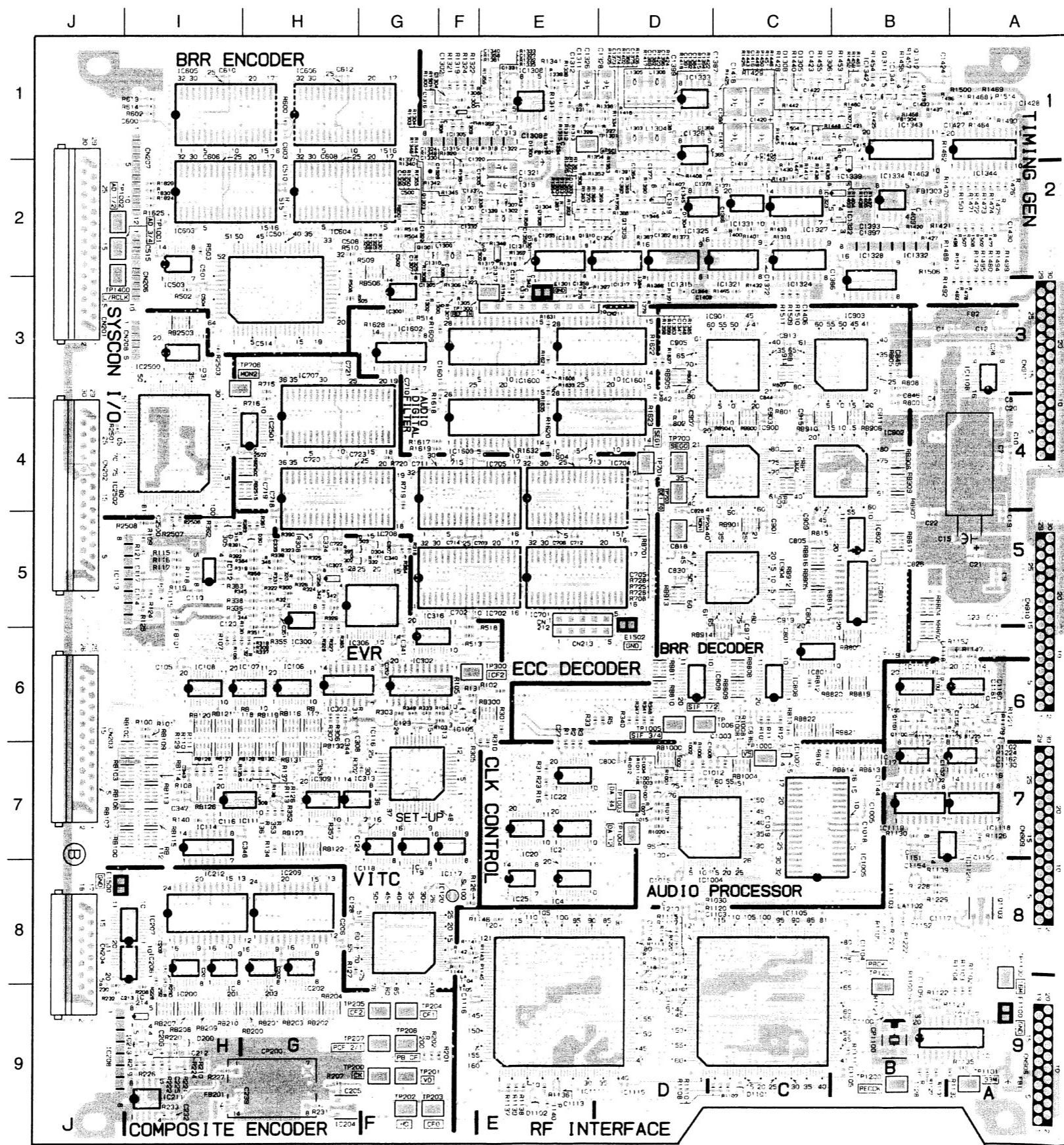


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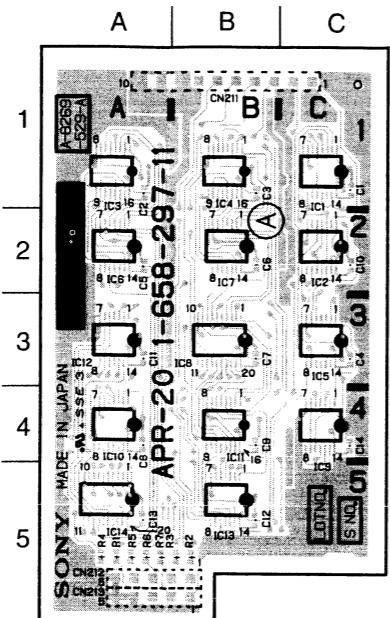
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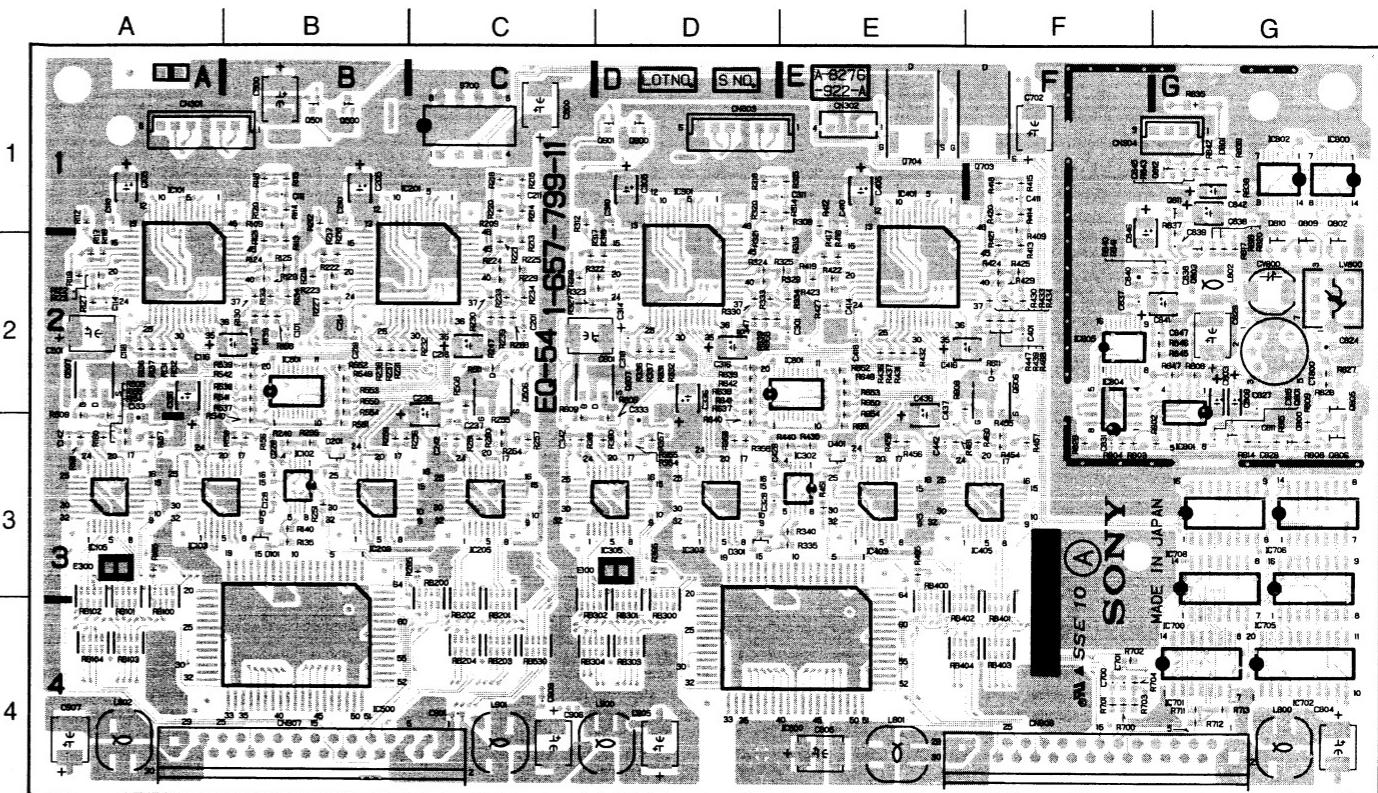


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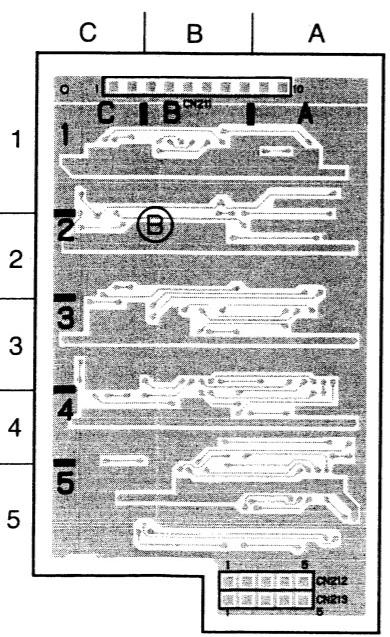
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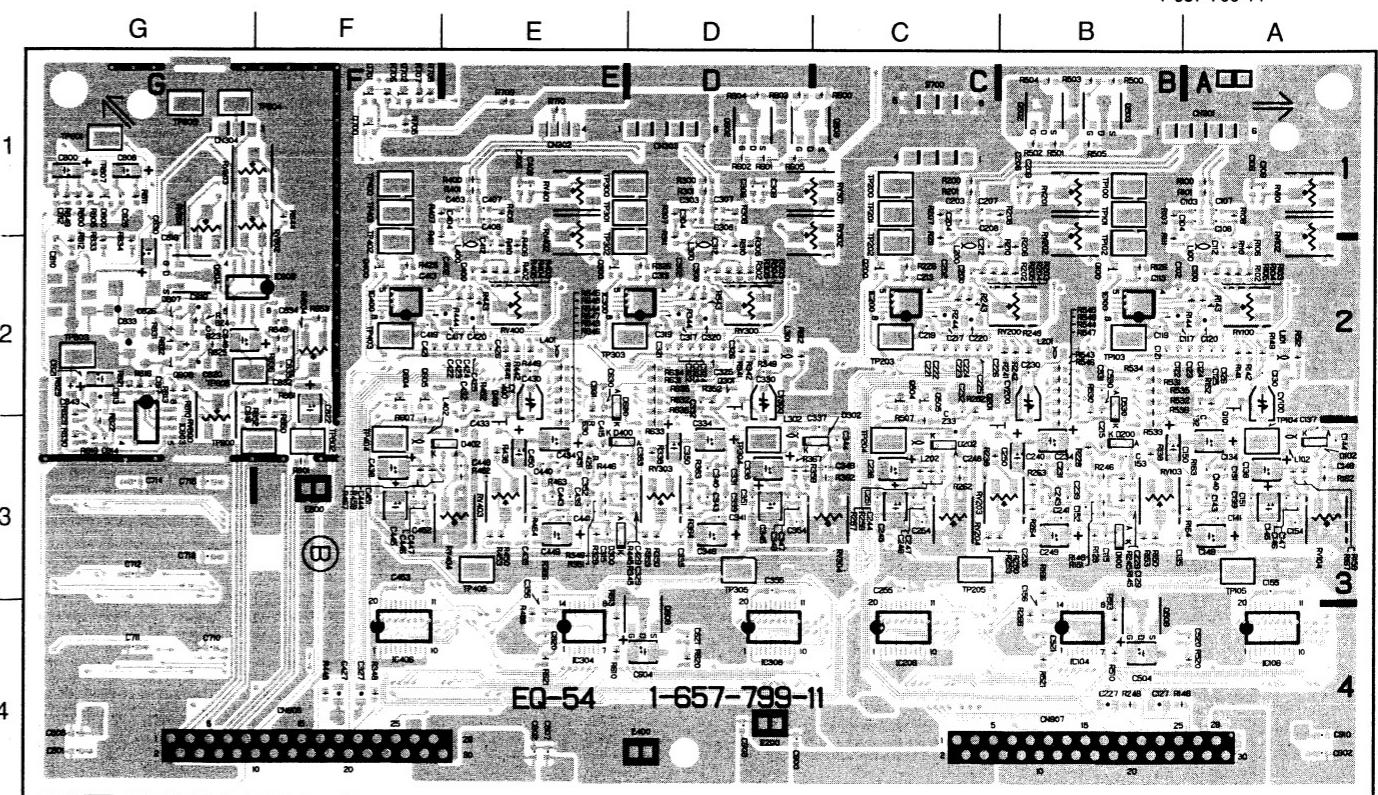
**APR-20 - A SIDE -**  
1-658-297-11



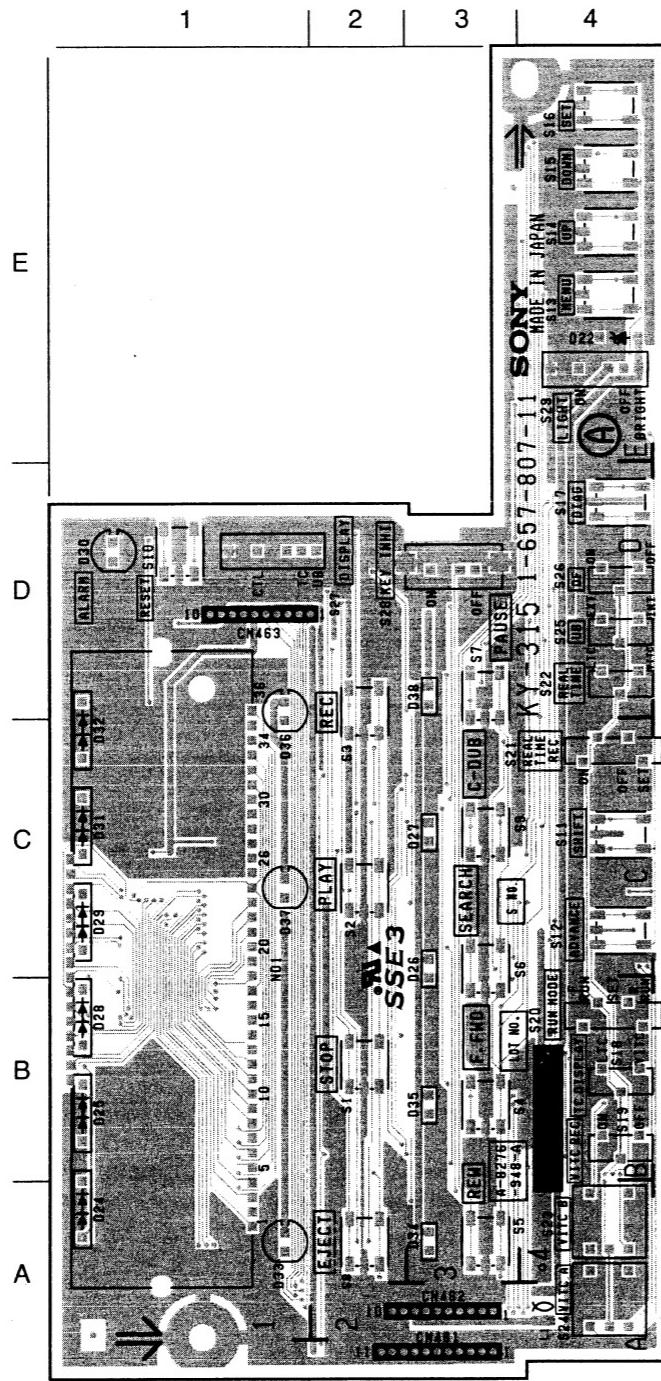
**EQ-54 - A SIDE -**  
1-657-799-11



**APR-20 - B SIDE -**  
1-658-297-11

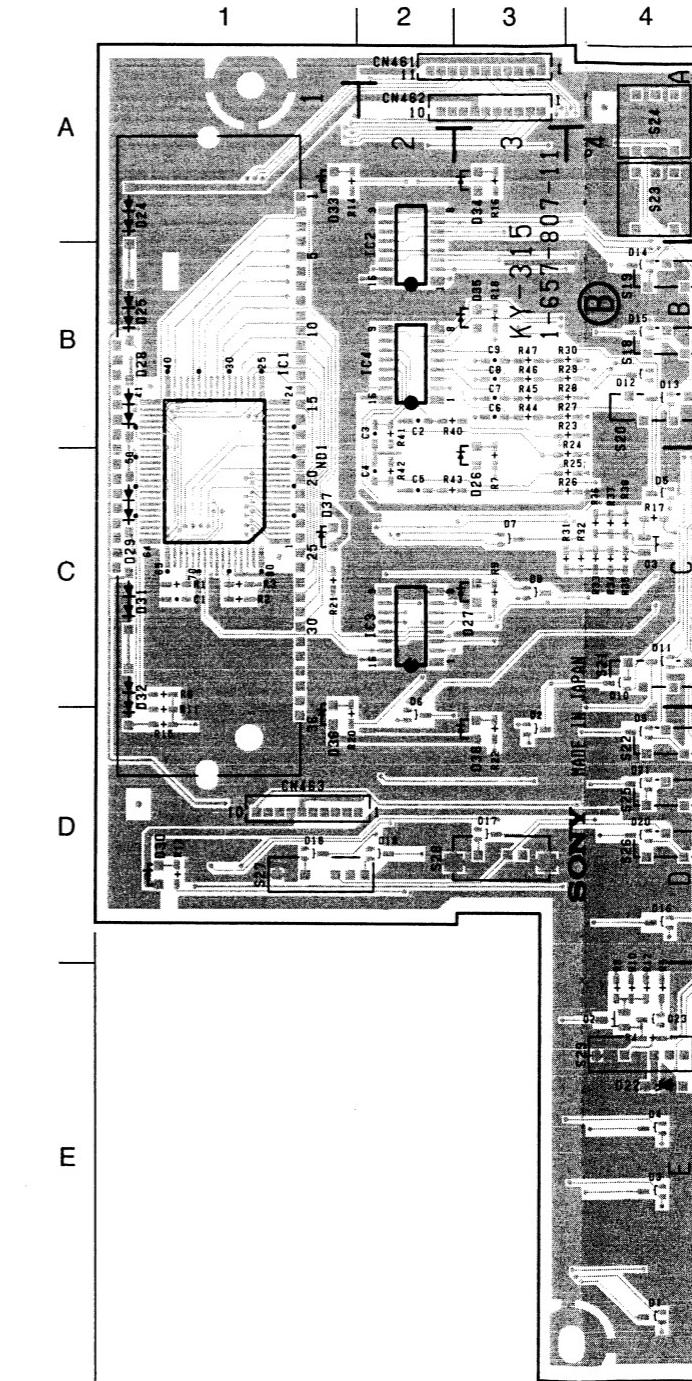


**EQ-54 - B SIDE -**  
1-657-799-11



**KY-315 - A SIDE**

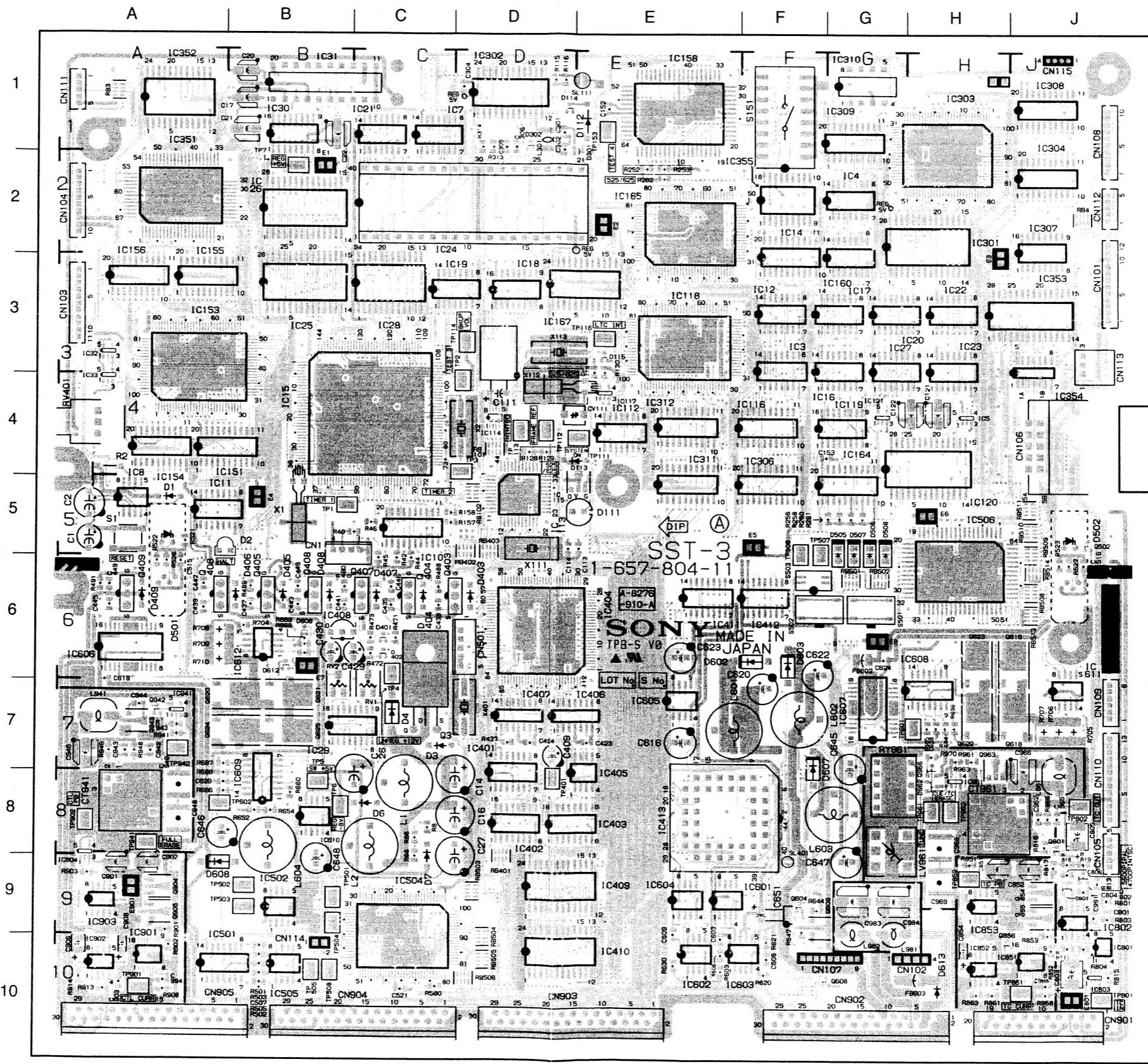
1-657-807-1



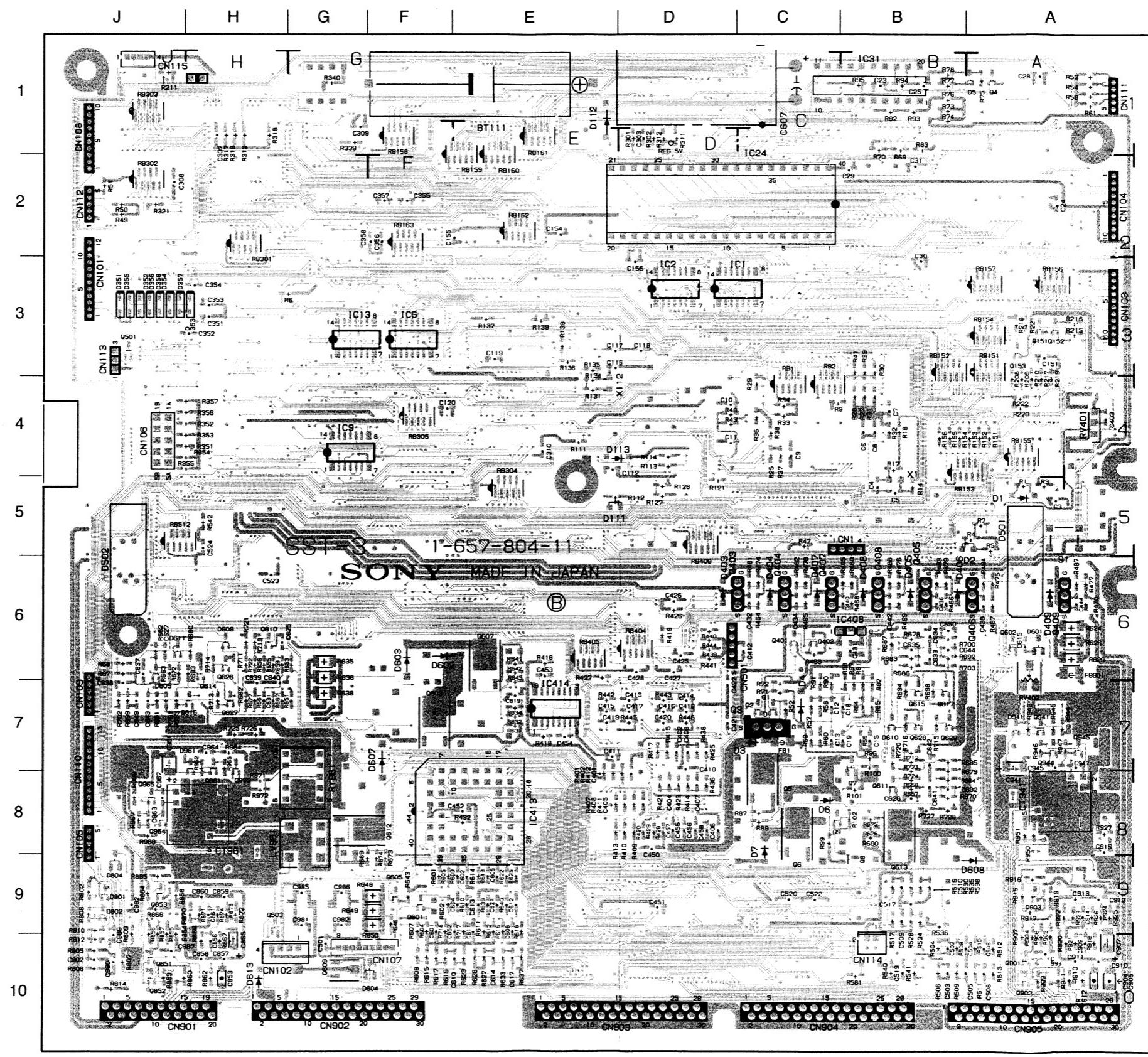
KY-315 - B SIDE -

1-657-807-11

SST-3 SST-3



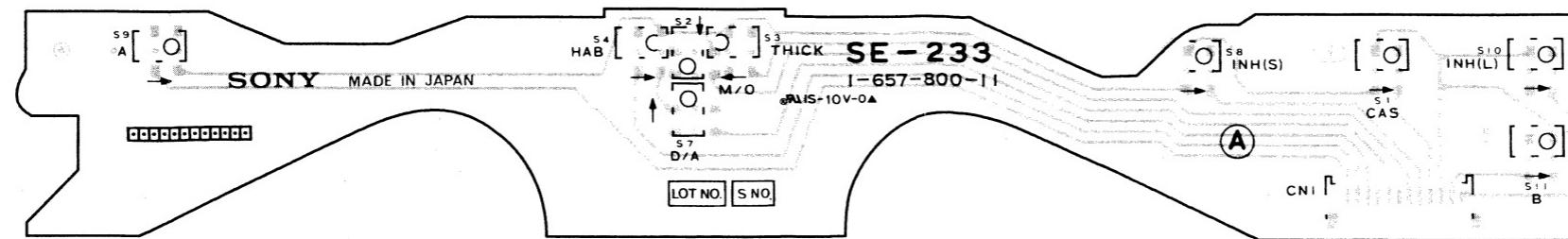
SST-3 - A SIDE -  
1-657-804-11



**SST-3 - B SIDE -**  
1-657-804-11

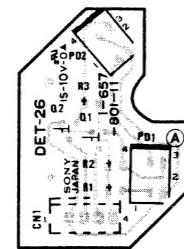
SE-233, DET-15/26

SE-233, DET-15/26



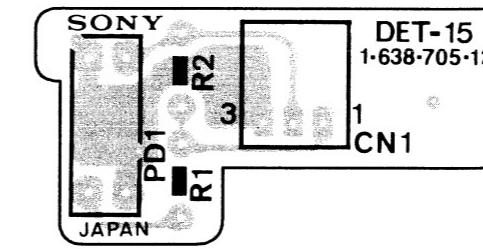
SE-233 - A SIDE -

1-657-800-11



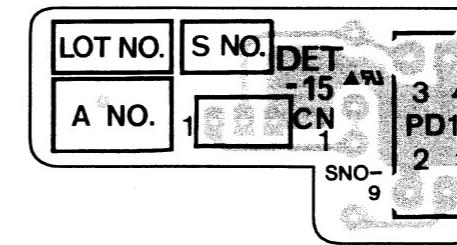
DET-26 - A SIDE -

1-657-801-11, 12



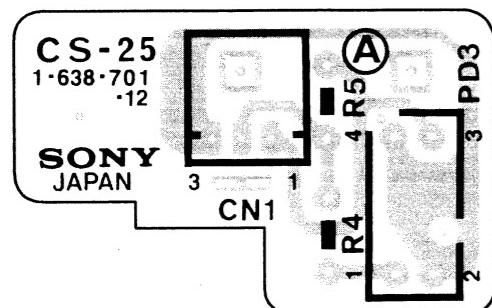
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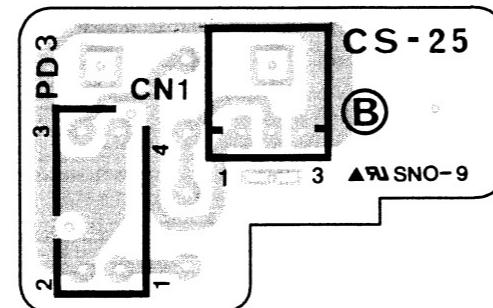


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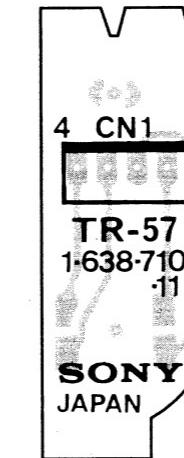
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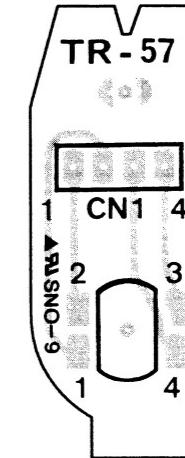
**CS-25 - A SIDE -**  
1-638-701-12



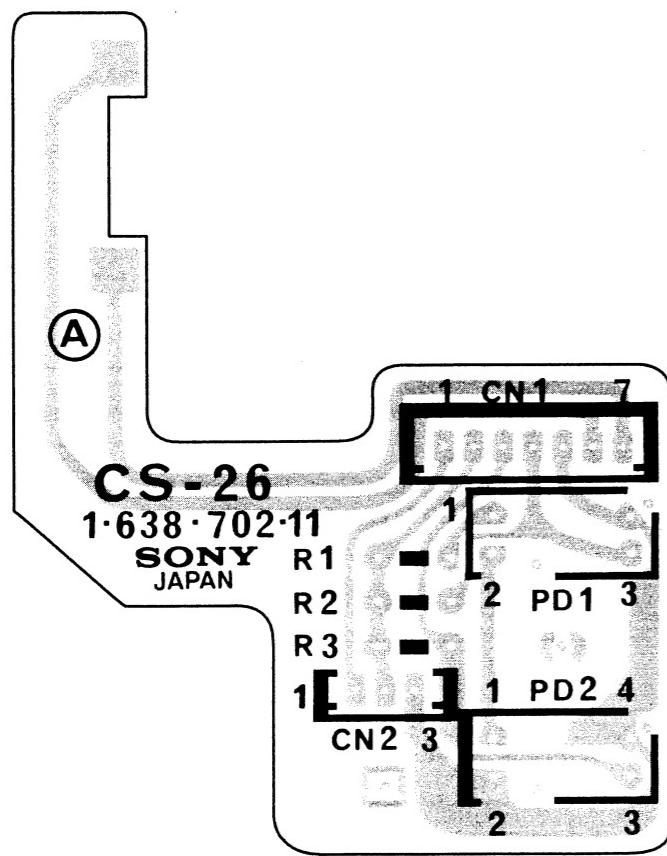
**CS-25 - B SIDE -**  
1-638-701-12



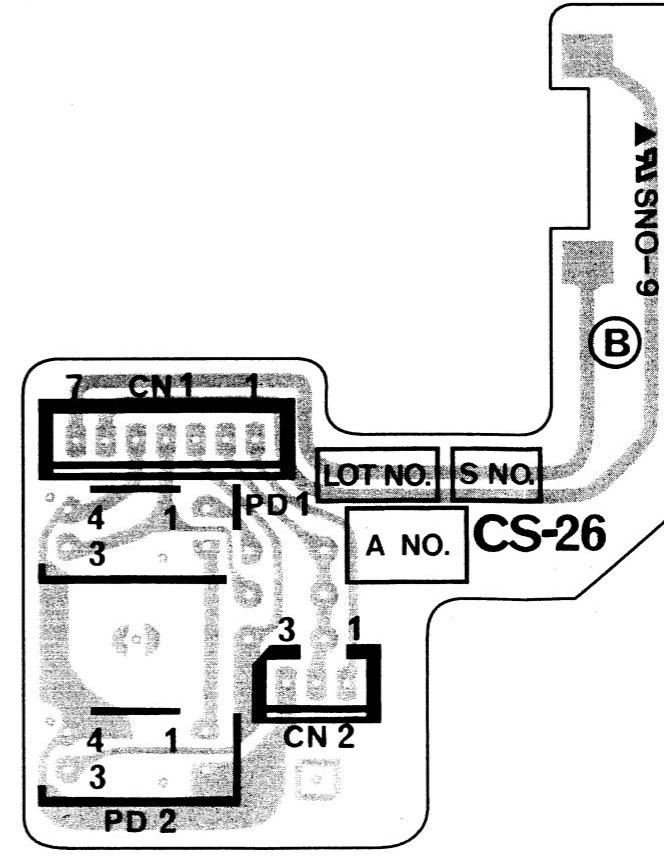
**TR-57 - A SIDE -**  
1-638-710-11



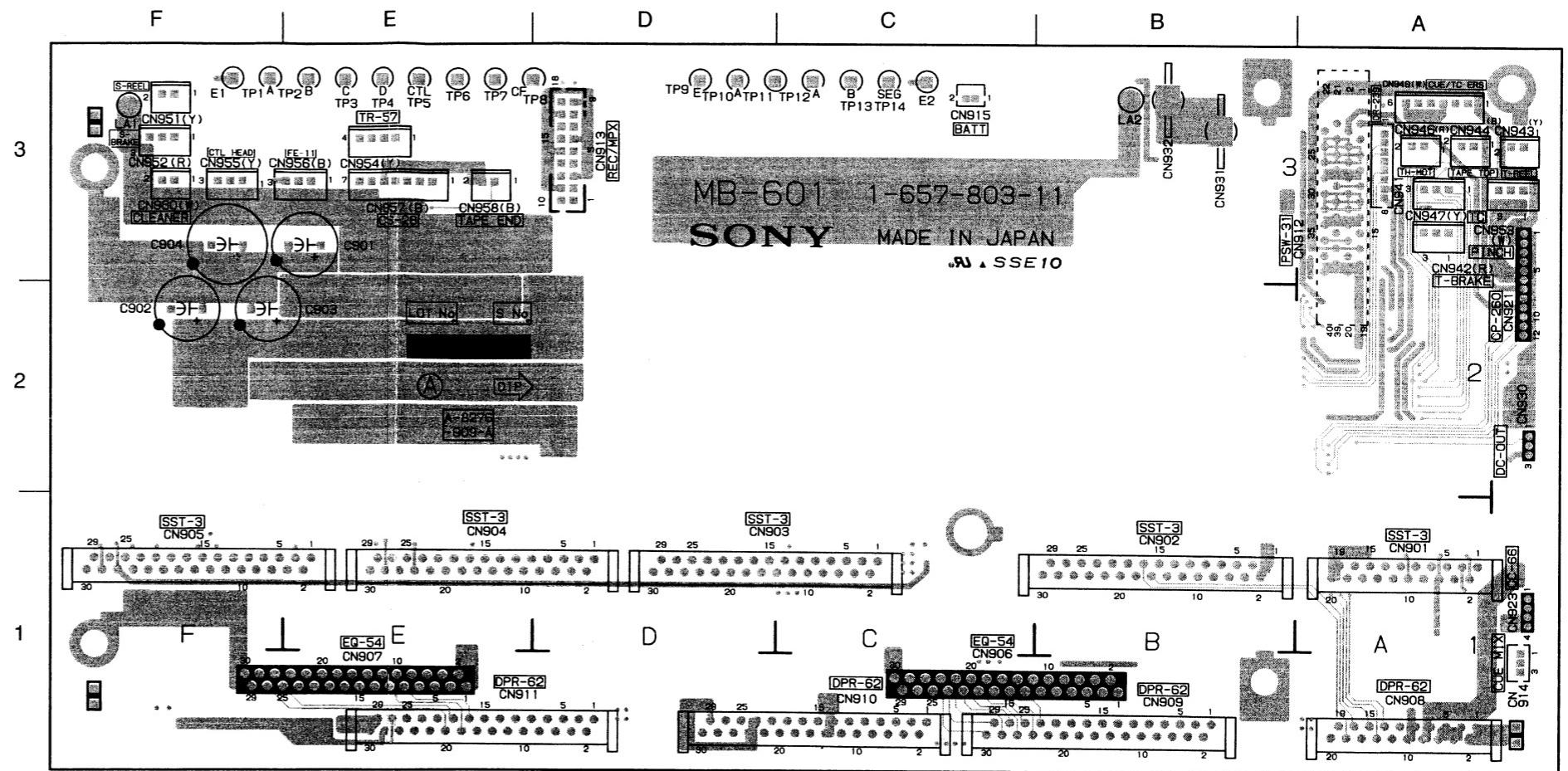
**TR-57 - B SIDE -**  
1-638-710-11



**CS-26 - A SIDE -**  
1-638-702-11

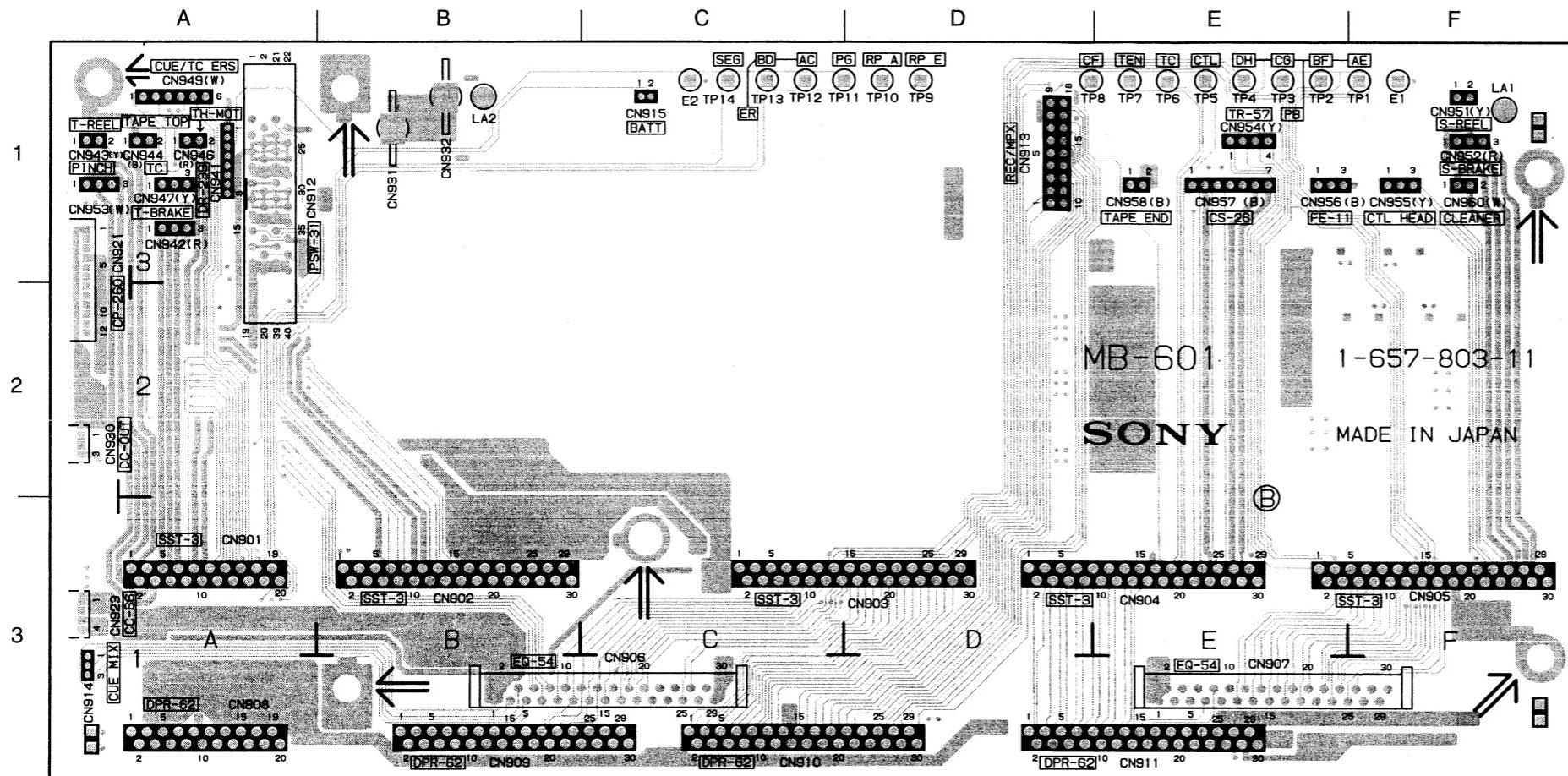


**CS-26 - B SIDE -**  
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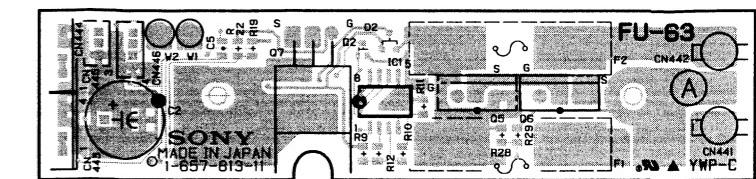


**MB-601 - A SIDE -**  
1-657-803-11

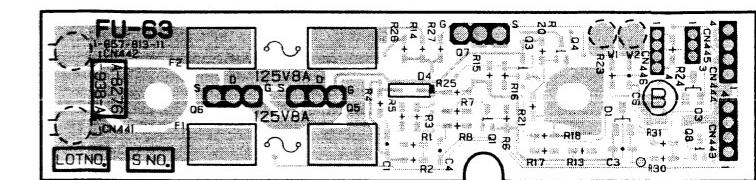
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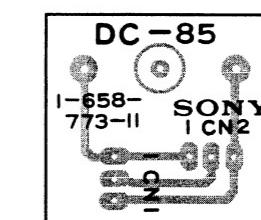
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1-657-803-11



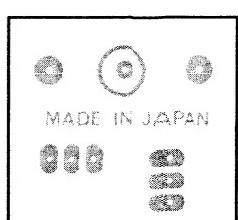
**FU-63 - A SIDE -**  
1-657-813-11



**FU-63 - B SIDE -**  
1-657-813-11

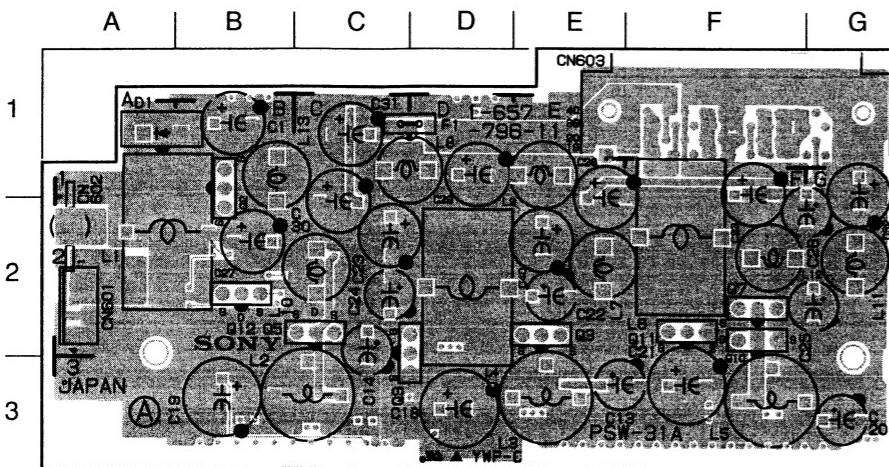


**DC-85 - A SIDE -**  
1-658-773-11

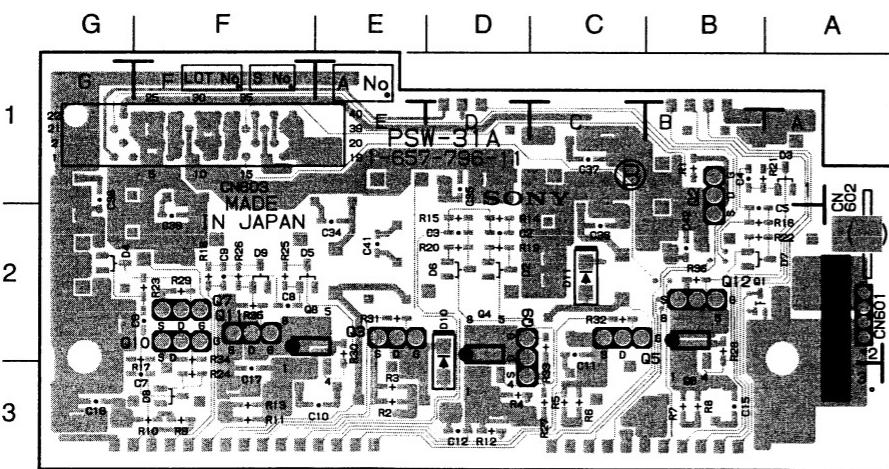


**DC-85 - B SIDE -**  
1-658-773-11

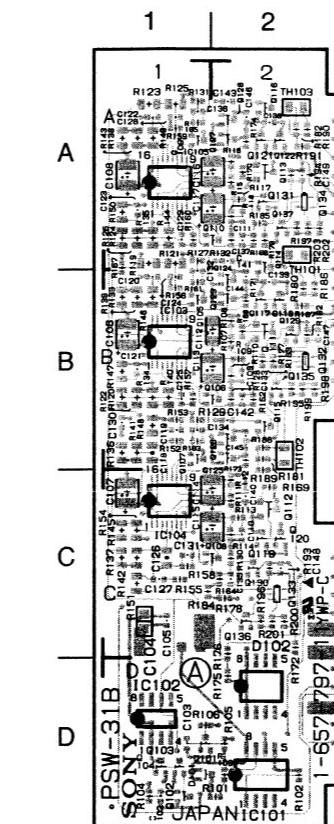
**PSW-31A/31B/31C**      **PSW-31A/31B/31C**



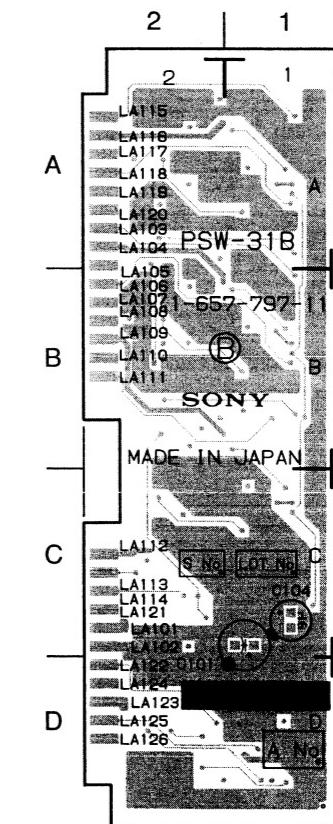
**PSW-31A - A SIDE -**  
1-657-796-11



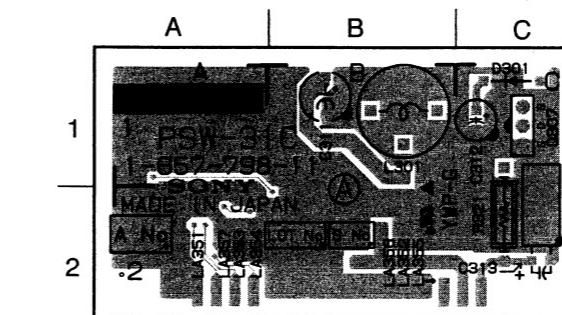
**PSW-31A - B SIDE -**  
1-657-796-11



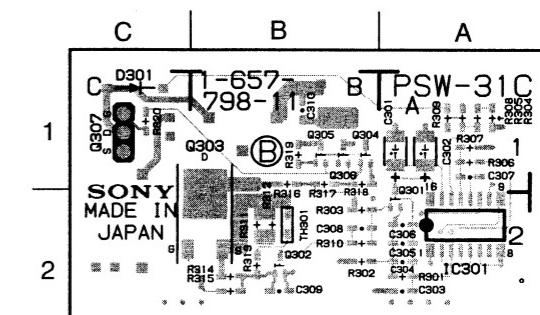
**PSW-31B - A SIDE -**  
1-657-797-11



**PSW-31B - B SIDE -**  
1-657-797-11



**PSW-31C - A SIDE -**  
1-657-798-11



**PSW-31C - B SIDE -**  
1-657-798-11

## Section 3

### Schematic Diagrams

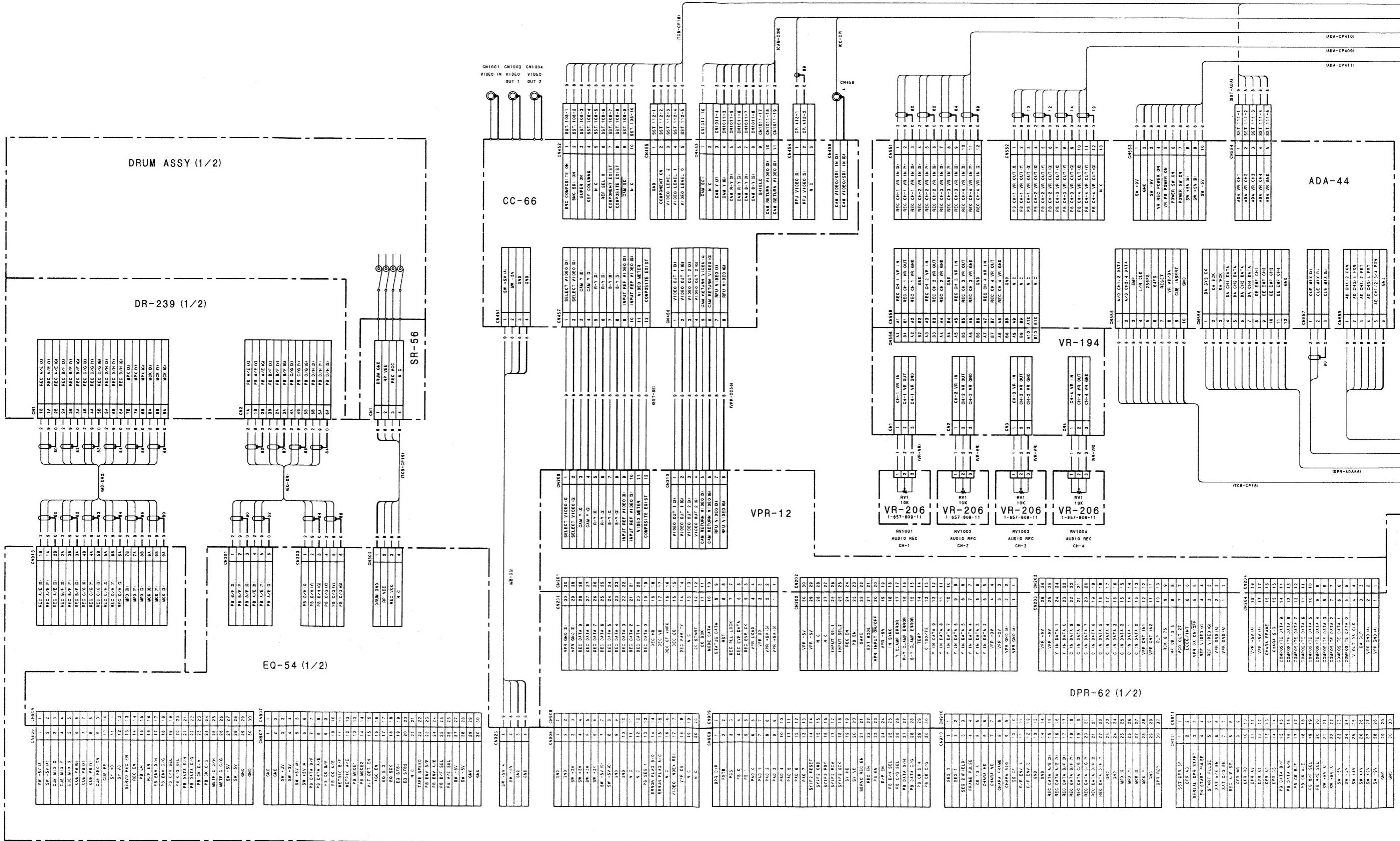
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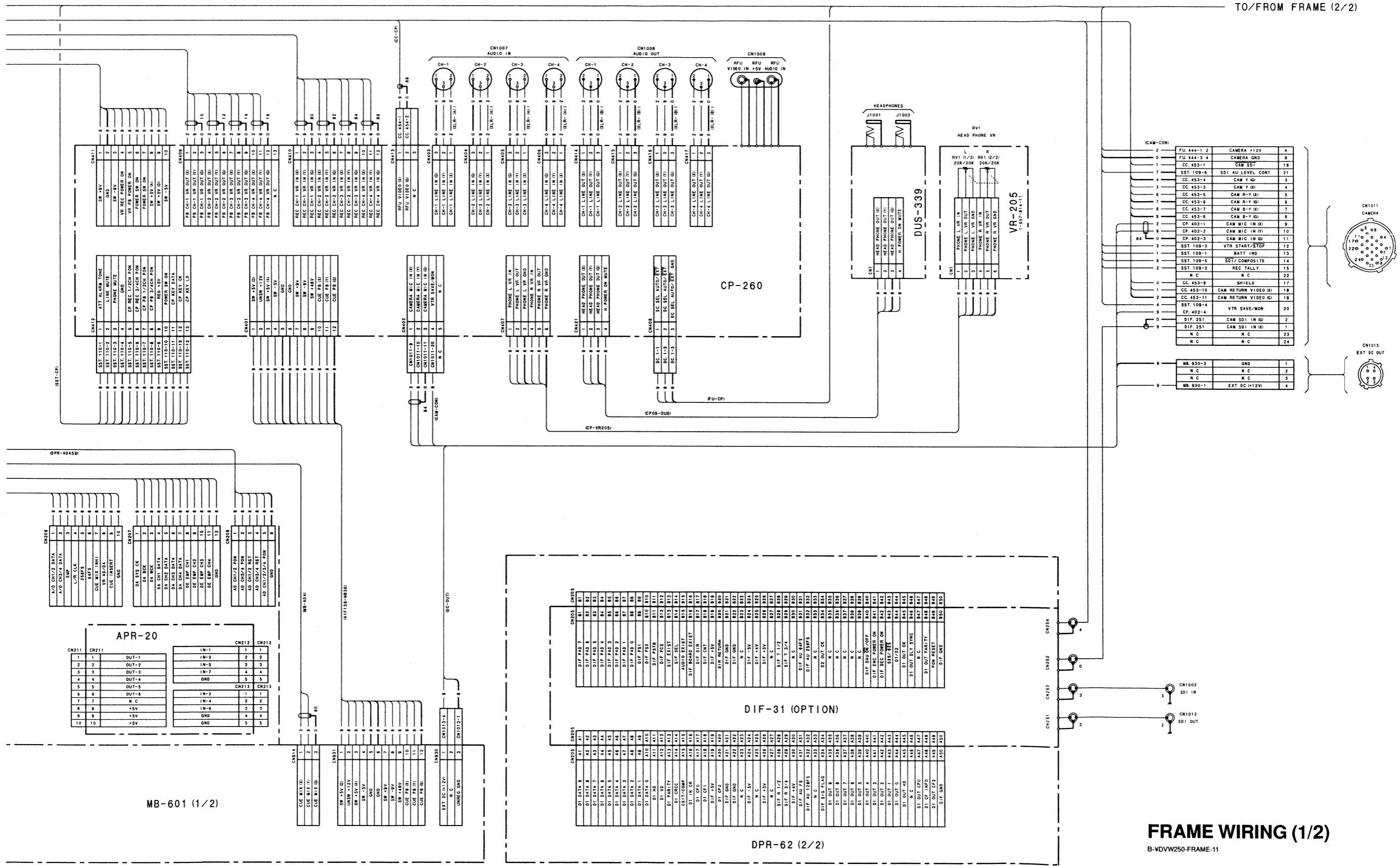
## FRAME WIRING (1/2)

## FRAME WIRING (1/2)

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)



## FRAME WIRING (1/2)      FRAME WIRING (1/2)



## FRAME WIRING (1/2)

B-YDVW250-FRAME-11

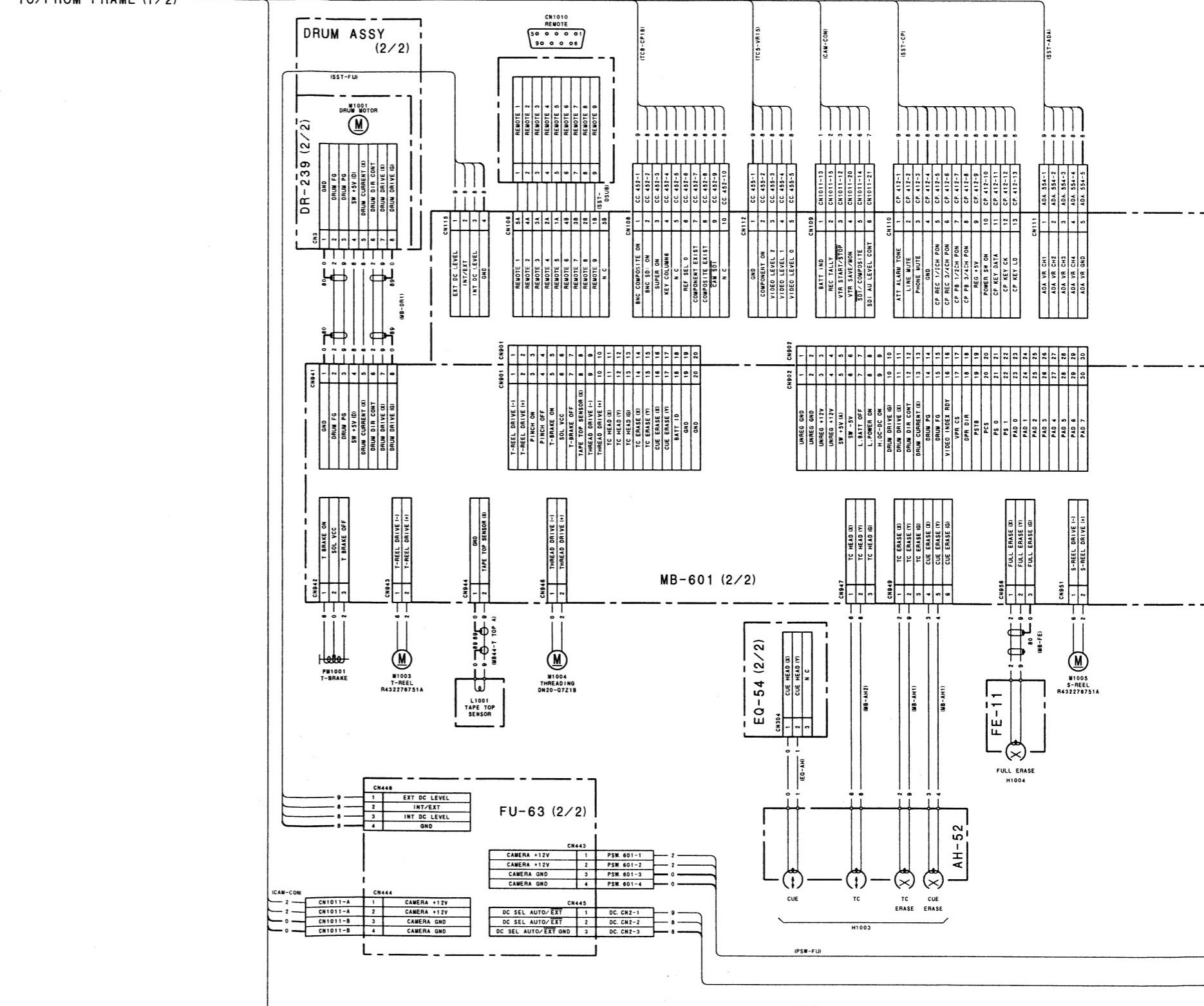
## FRAME WIRING (2/2)

## FRAME WIRING (2/2)

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

1

TO/FROM FRAME (1/2)



2

3

4

5

3-4

3-4

D

E

F

G

DVW-250/250P

A

B

C

D

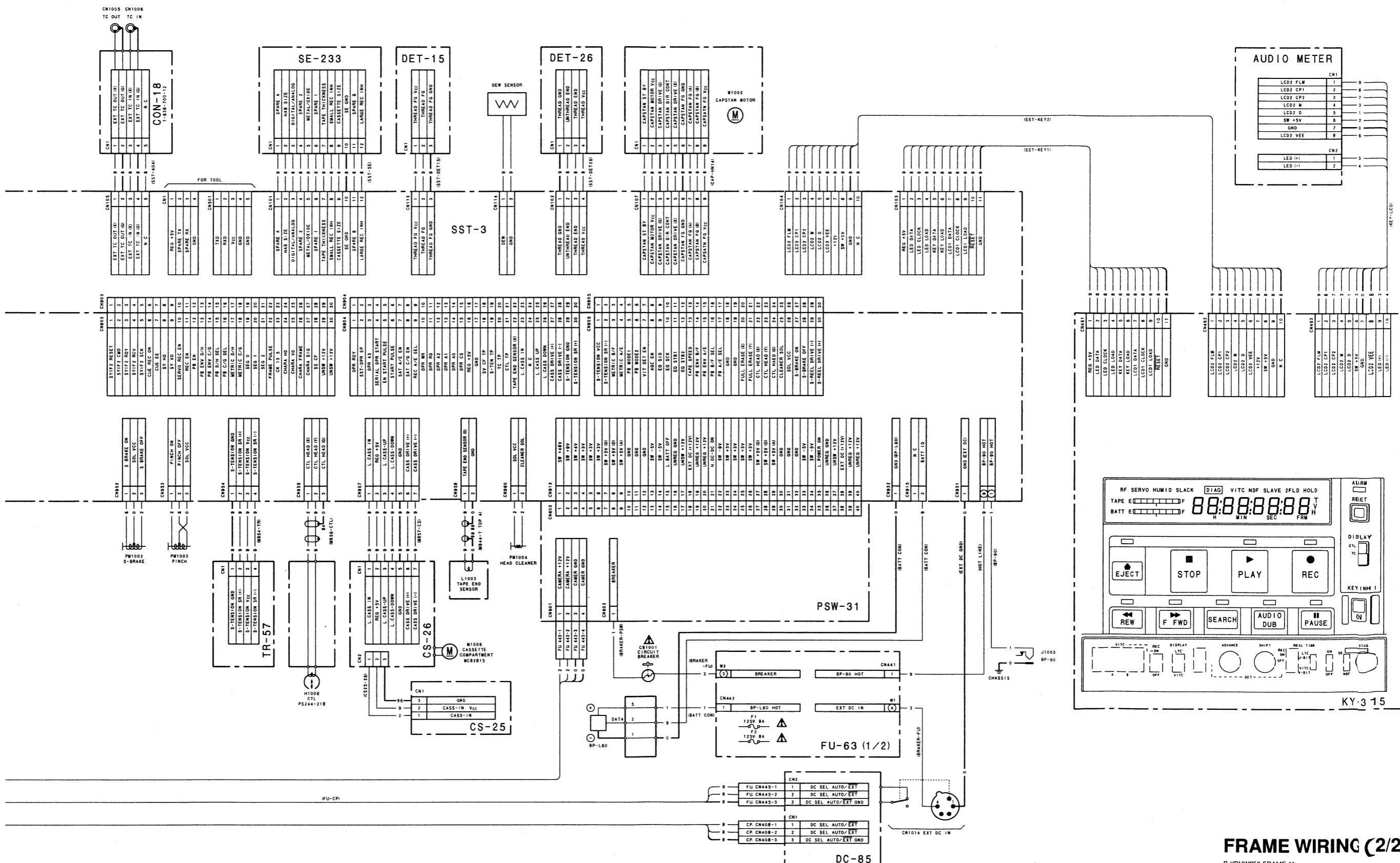
E

F

G

H

## FRAME WIRING (2/2) FRAME WIRING (2/2)



FRAME WIRING (2/2)

B-YDVW250-FRAME-11

DVW-250 (J)  
 DVW-250 (UC)  
 DVW-250P (SY)

CC-66 (1-657-811-11)

1  
 CN451 A1  
 CN452 E2  
 CN453 C1  
 CN454 A2  
 CN455 E1  
 CN456 B2  
 CN457 A2  
 CN458 D1

D4 E2  
 D5 A2  
 D6 D1  
 D7 D1  
 D8 D1  
 D9 C2

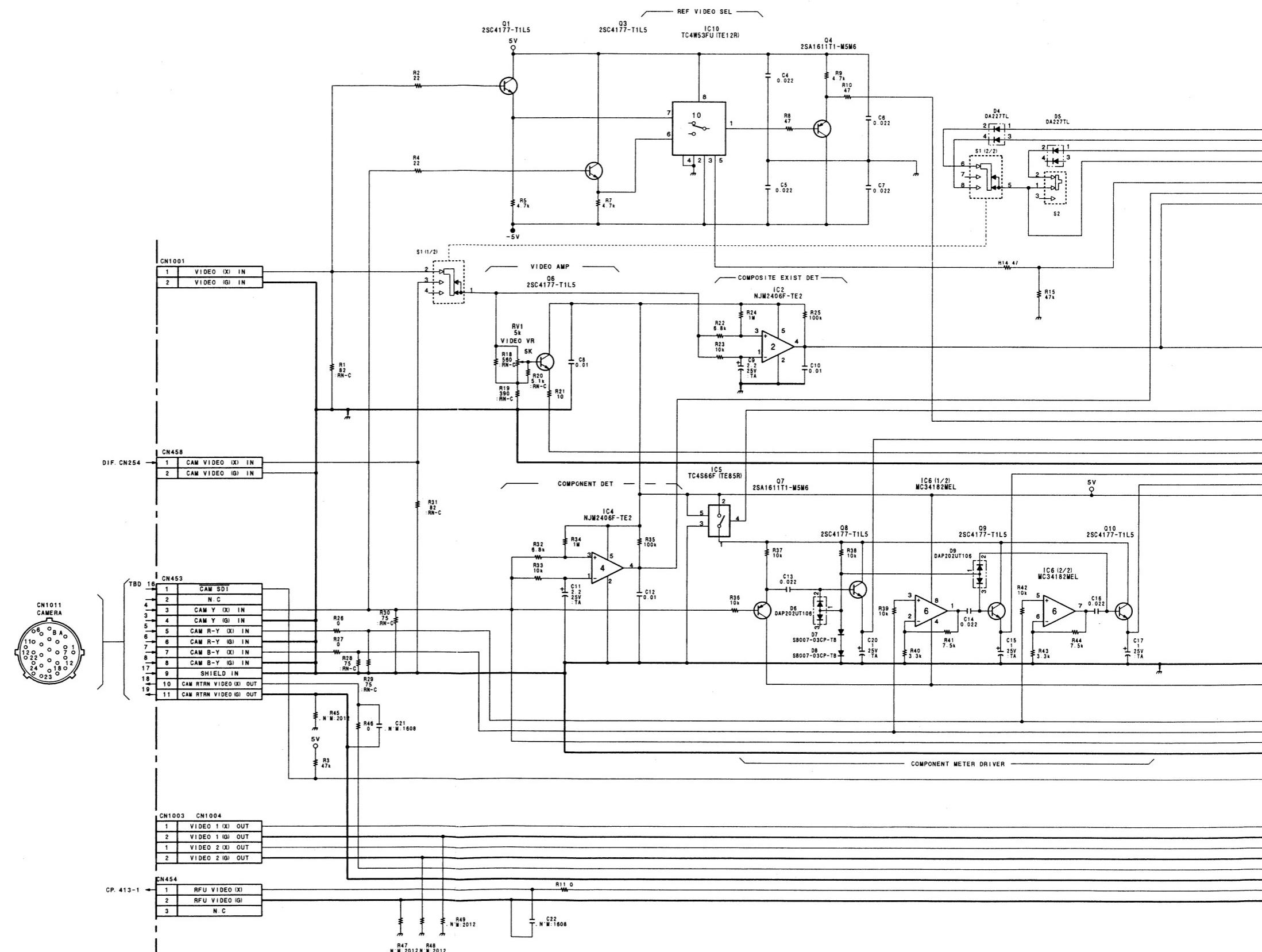
FB2 A1

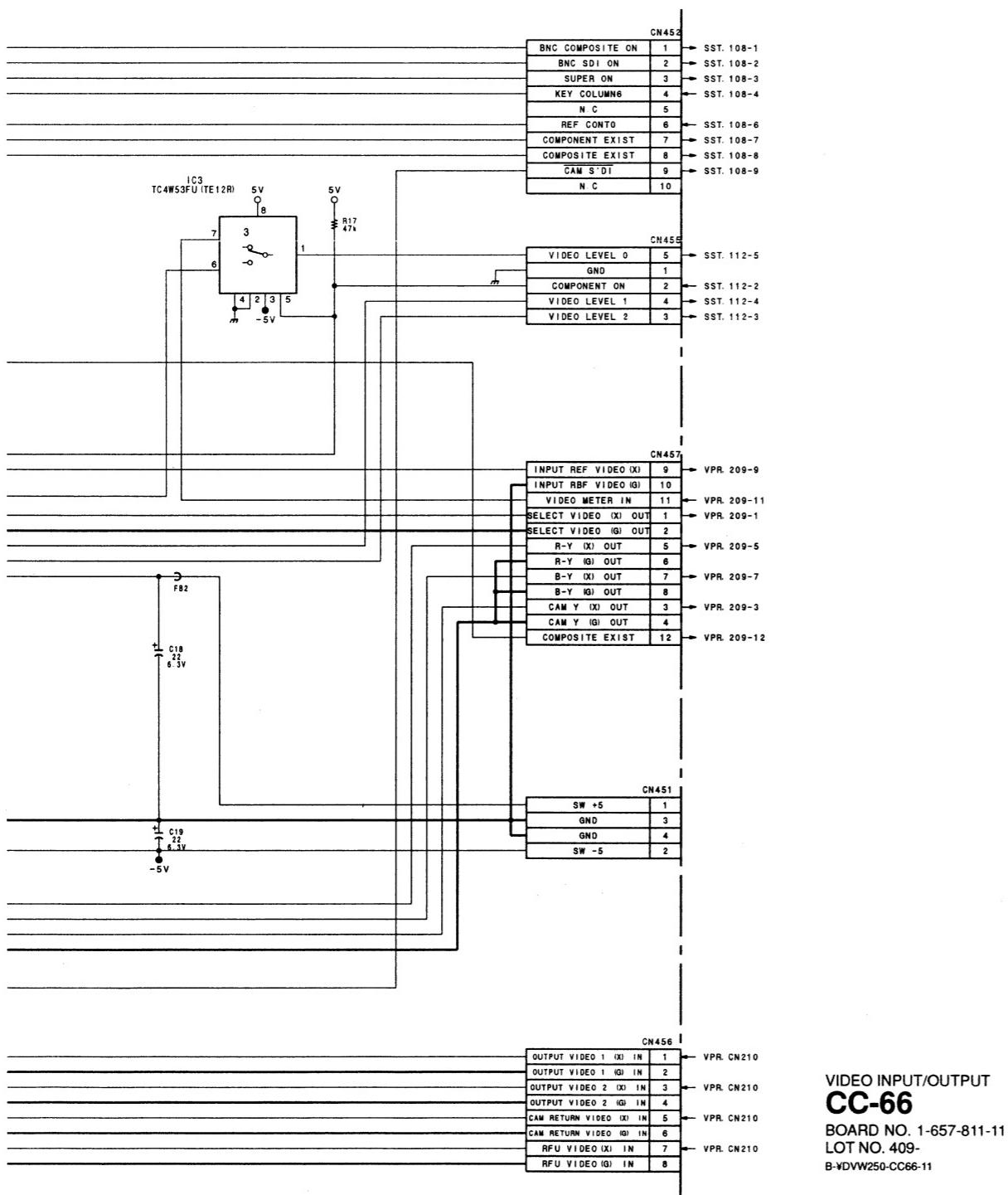
IC2 E1  
 IC3 E1  
 IC4 E1  
 IC5 D1  
 IC6 D2  
 IC10 A1

Q1 \*E2  
 Q3 \*C1  
 Q4 \*A1  
 Q6 E1  
 Q7 D1  
 Q8 D1  
 Q9 D2  
 Q10 D1

S1 \*E1  
 S2 \*A2

\* : Soldering Side





**VIDEO INPUT/OUTPUT  
CC-66**  
BOARD NO. 1-657-811-11  
LOT NO. 409-  
B-DVW250-CC66-11

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

VPR-12A (1-657-805-11)

CN201	*B6	IC29	C5	L200	F2	RV500	K3
CN202	*D6	IC30	*D5	L201	E1		
CN203	*F6	IC31	C5	L500	J4	TP1	H3
CN204	*H6	IC32	D5	L501	J4	TP2	H3
CN209	K2	IC33	D5	L502	K4	TP3	H4
CN210	K3	IC34	E5	L503	J3	TP4	F2
		IC36	E3	L504	J3	TP5	F4
CP200	A2	IC37	E5	L700	H6	TP6	F3
		IC38	*F5	L701	D6	TP7	F5
D1	*F3	IC40	E3	L702	C6	TP200	J2
D2	*F4	IC41	D2	L703	F6	TP201	F2
D3	*F4	IC42	C2	L704	E6	TP202	H1
D4	*E5	IC43	C3			TP203	E2
D5	D4	IC44	E4	Q1	*H4	TP204	C3
D10	F1	IC45	E3	Q2	*G5	TP205	C3
D200	*B5	IC200	B5	Q3	*H4	TP206	C4
D201	*C5	IC201	A5	Q4	*H4	TP207	A1
D202	*B5	IC202	B5	Q5	*G5	TP208	E2
D203	*G2	IC203	B5	Q6	G6	TP500	J4
D204	*A1	IC204	B5	Q7	*H2	TP501	J3
D206	*A2	IC205	B5	Q8	*H3	TP502	K3
D207	*D2	IC206	J1	Q9	*H4		
D500	*H5	IC207	G2	Q10	*F2		
D700	J2	IC208	G1	Q11	*F3		
D701	G5	IC209	C1	Q12	*F4		
D702	H2	IC210	F2	Q13	G6		
D703	*K1	IC211	E1	Q14	*F3		
D704	*K5	IC212	H1	Q15	*F3		
E1	H3	IC213	D1	Q16	*F3		
E2	E4	IC214	G1	Q17	*F3		
E3	B5	IC215	J1	Q18	*F4		
E200	F2	IC216	H1	Q19	*F4		
E201	F1	IC217	D1	Q20	*G5		
E202	B2	IC218	G1	Q21	*F3		
E203	C2	IC220	D1	Q22	*F3		
E204	A3	IC221	F2	Q23	*F4		
E205	C4	IC222	C2	Q24	D5		
E500	H5	IC223	E2	Q25	*E3		
E501	J3	IC224	C1	Q26	*E3		
		IC225	B2	Q27	*E4		
FB1	J2	IC226	B1	Q29	*E2		
FB2	J2	IC227	E2	Q30	*E3		
FB3	J2	IC228	H5	Q200	*J2		
FB200	J2	IC229	E2	Q201	*J2		
FB201	A2	IC230	B2	Q202	*J2		
FB202	A1	IC231	A2	Q203	*H2		
FL1	G3	IC232	D2	Q204	*F2		
FL2	G4	IC233	B1	Q205	*G2		
FL3	G3	IC234	C2	Q206	*G2		
FL200	H2	IC235	A1	Q207	*E2		
FL500	K4	IC236	A1	Q208	*G2		
		IC237	*B2	Q209	*F2		
		IC238	B2	Q210	*E1		
IC1	G6	IC239	A4	Q211	*D1		
IC2	*G6	IC240	B4	Q212	*D1		
IC3	G5	IC241	A3	Q213	*B1		
IC4	F6	IC242	A4	Q214	*B1		
IC5	F3	IC243	B4	Q215	A4		
IC6	F4	IC244	A3	Q216	*E2		
IC7	F5	IC245	A5	Q217	*E2		
IC8	F3	IC246	A5	Q500	*J5		
IC9	F3	IC247	A5	Q501	*J5		
IC10	F4	IC248	*G1	Q502	J3		
IC11	F5	IC249	*D2	Q700	G5		
IC12	F5	IC500	H6	Q701	G5		
IC13	*F5	IC501	J6	Q702	*D4		
IC14	E4	IC502	H6	Q703	*D3		
IC15	E3	IC503	H5	Q704	*H2		
IC16	E5	IC504	H5	Q705	J1		
IC17	F6	IC505	K5	Q706	J1		
IC18	E3	IC506	J5	Q707	D3		
IC19	E4	IC507	J4	Q708	D3		
IC21	F5	IC508	J4	Q709	*H2		
IC22	C3	IC509	J4	Q710	*J5		
IC23	C4	IC510	J3	Q711	*K5		
IC24	C4	IC511	J3	Q712	J5		
IC25	F5	IC700	D6				
IC26	C3	IC701	E5	RV200	K1		
IC27	C4	L2	G6	RV201	C1		
IC28	C4	L2	G6	RV202	F1		

C

3-8

3-8

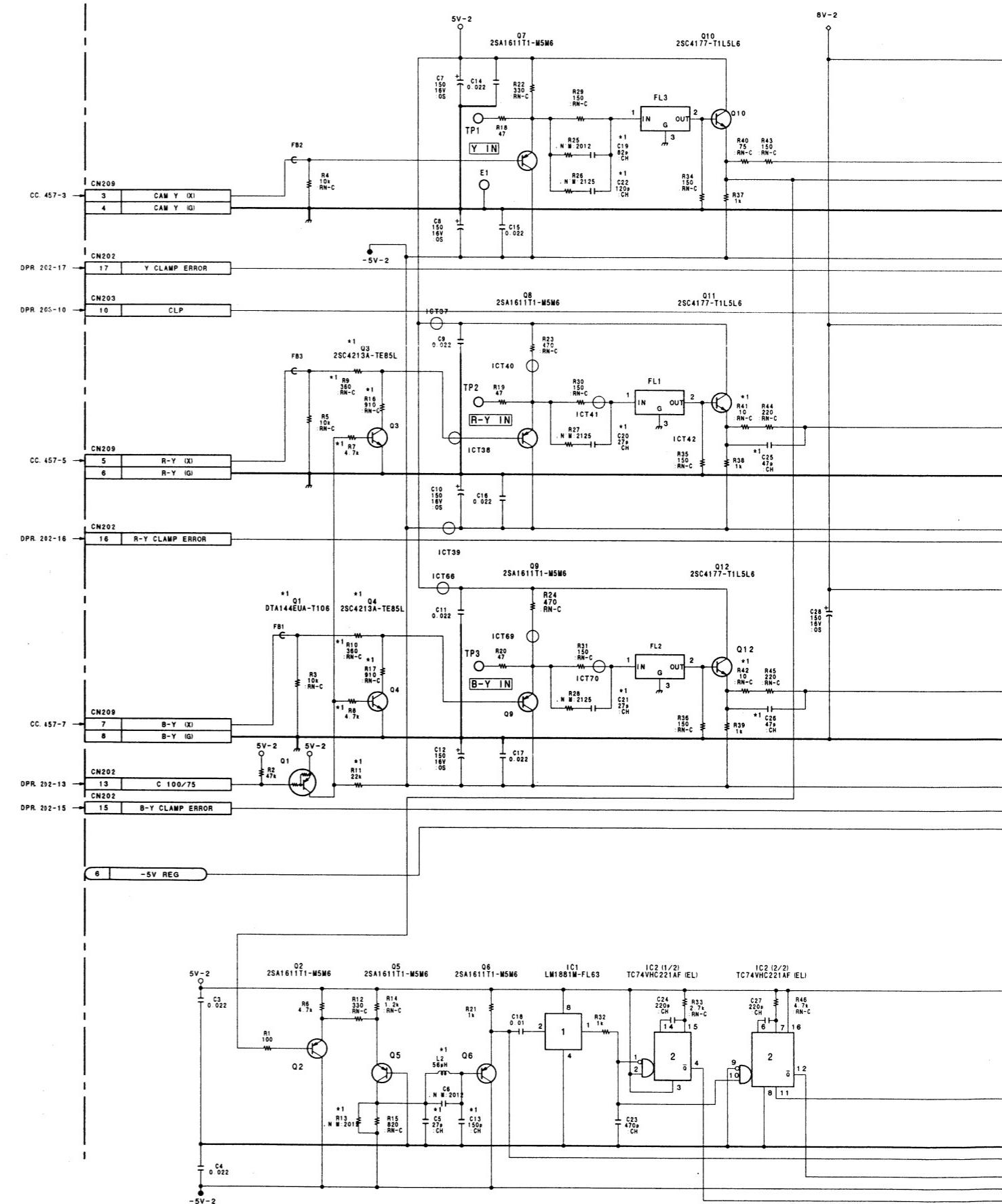
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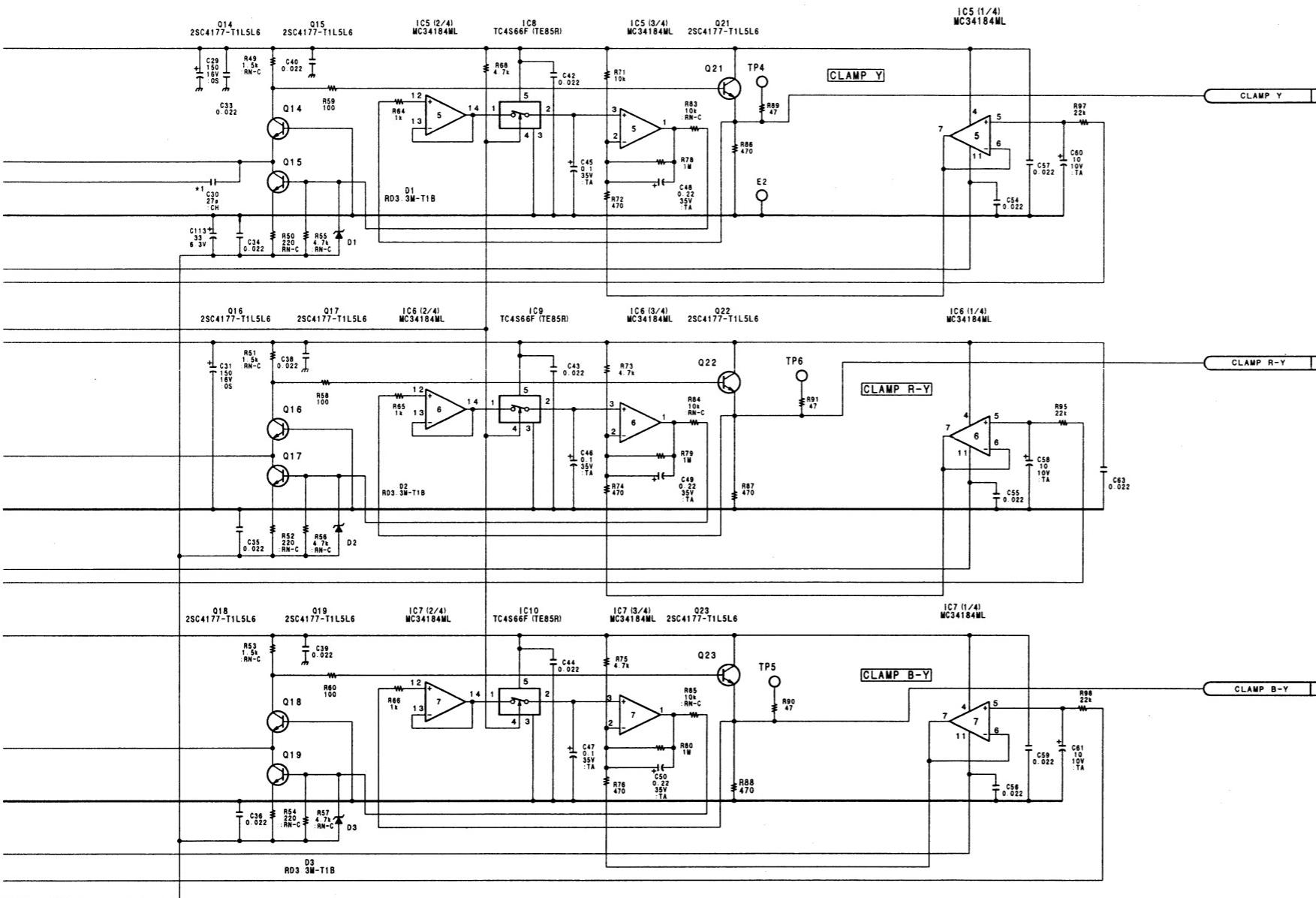
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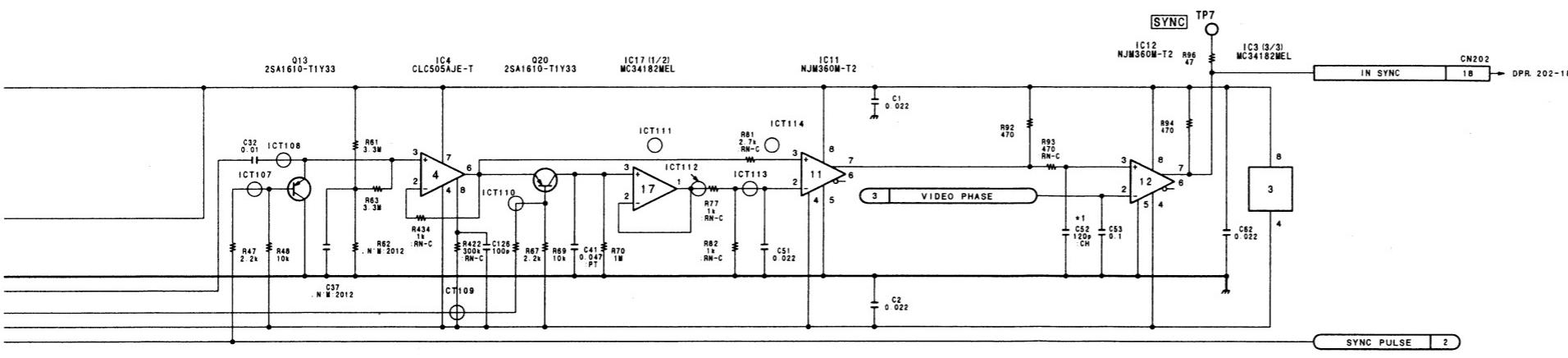
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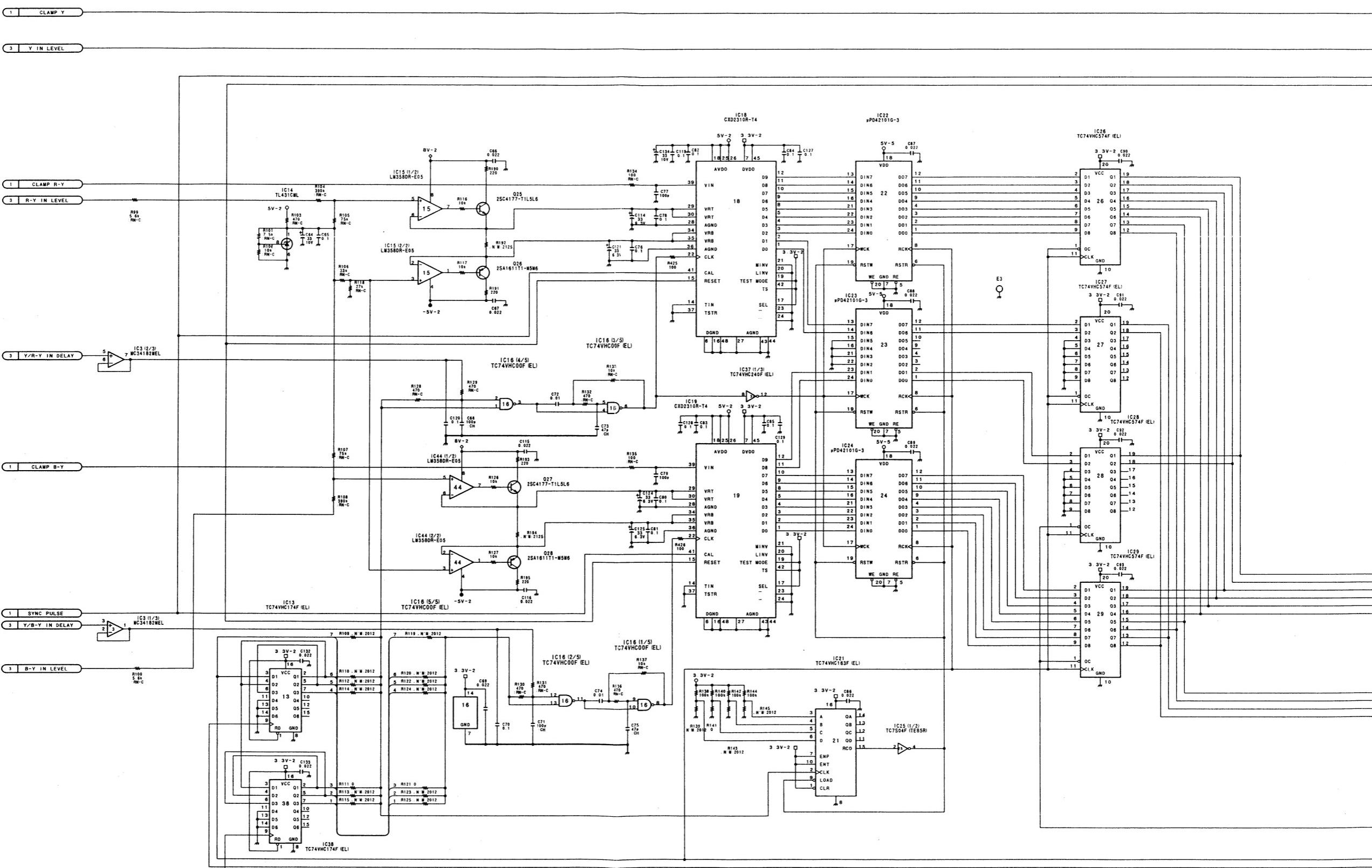
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C19	82P	47P
C20	27P	22P
C21	27P	22P
C22	120P	100P
C5	27P	47P
C13	150P	220P
C25	47P	33P
C26	47P	33P
C30	27P	33P
C52	120P	150P
L2	56UH	62UH
Q3	2SC4213A	N/M
Q4	2SC4213A	N/M
O1	DTA144EU	N/M
R13	N/M	15K
R9	360	0
R16	910	N/M
R7	4.7K	N/M
R10	360	0
R17	910	N/M
R8	4.7K	N/M
R11	22K	N/M
R41	10	0
R42	10	0

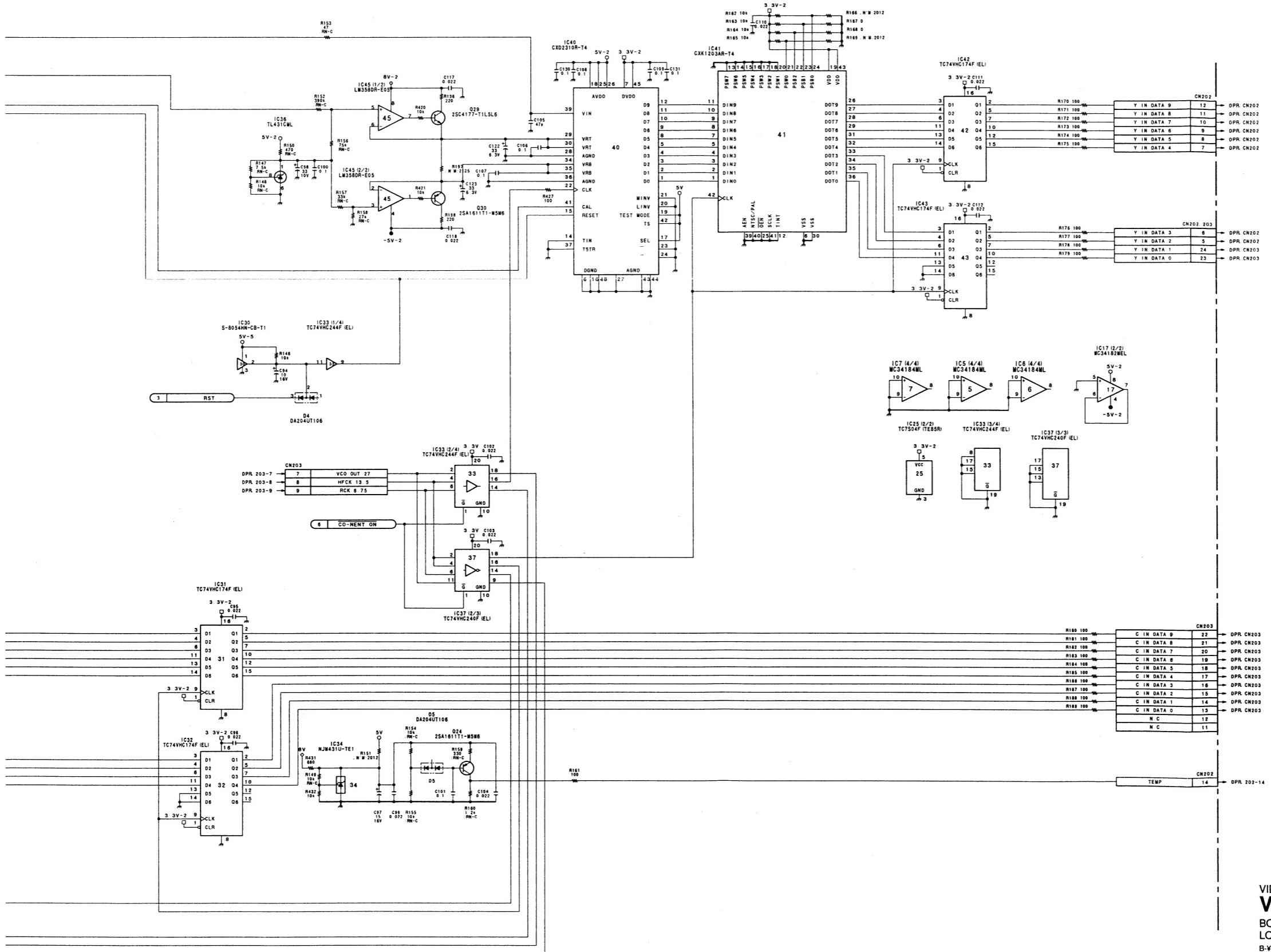


VIDEO SIGNAL PROCESSOR (AD/DA)  
**VPR-12 (1/6)**  
BOARD NO. 1-657-805-11  
LOT NO. 409-  
B-VDVW250-VPR12-11-SM

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

1





VIDEO SIGNAL PROCESSOR (AD/DA)

**VPR-12 (2/6)**

BOARD NO. 1-657-805-11

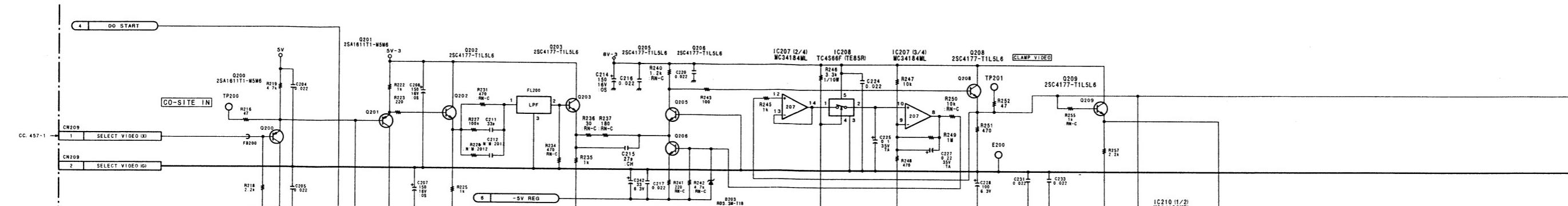
LOT NO. 409-

B-YDVW250-VPR12-11-S/M

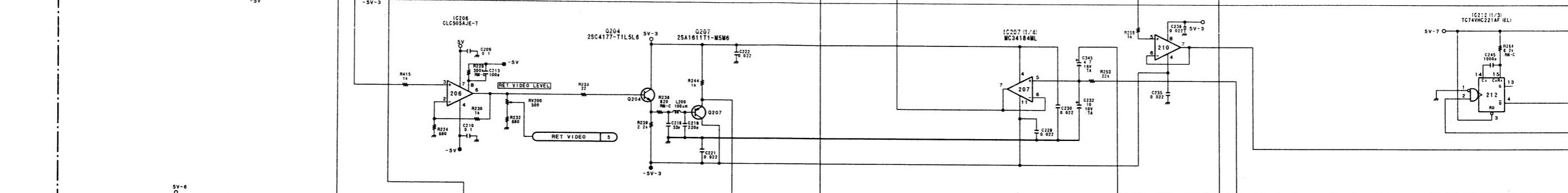
VPR-12 (3/6) VPR-12 (3/6)

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

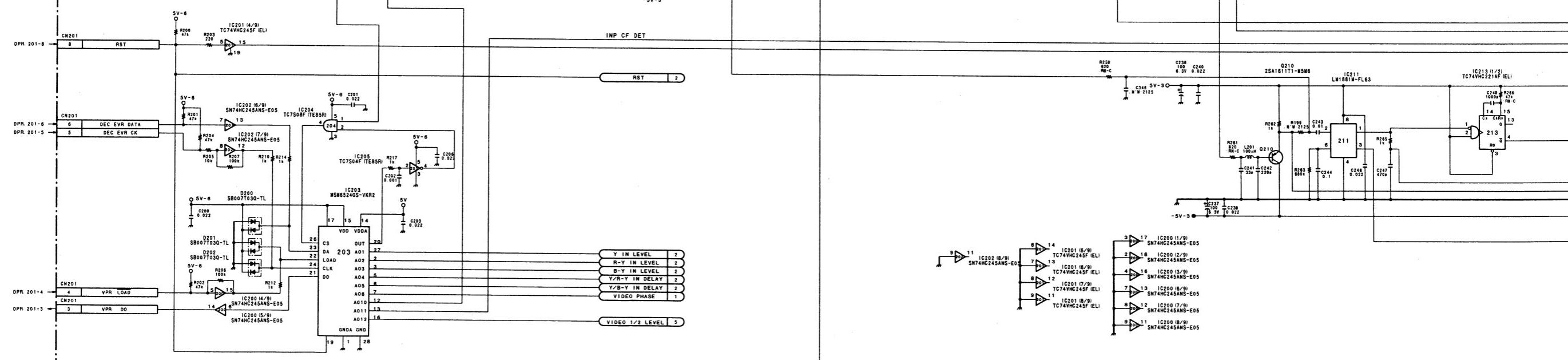
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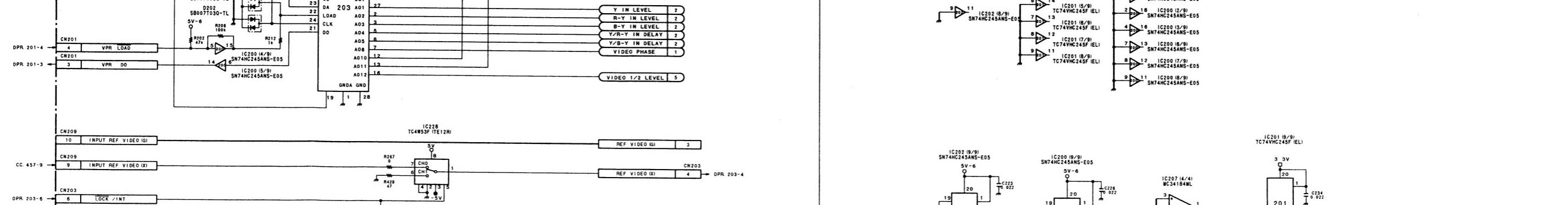
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3

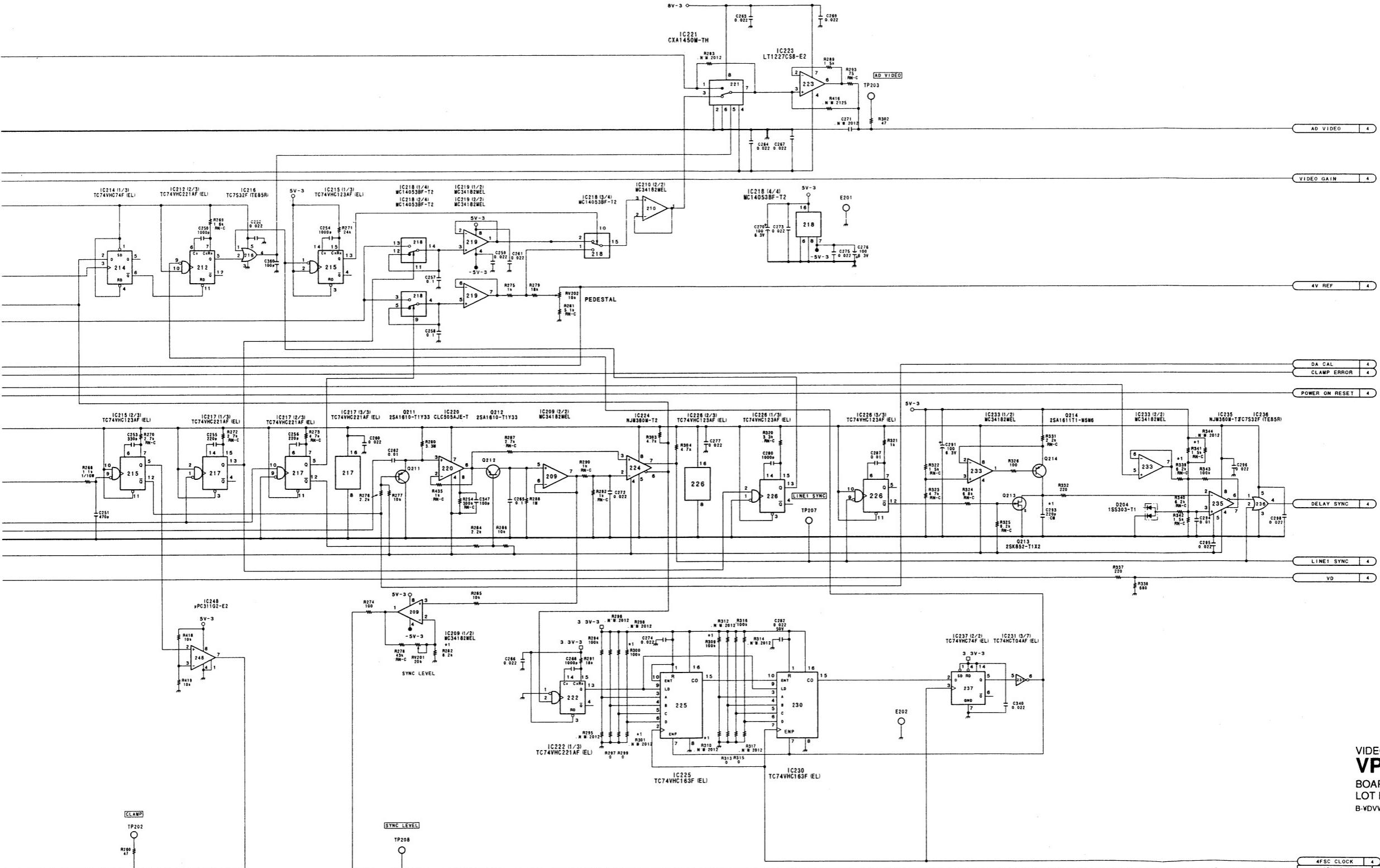


4



5





VIDEO SIGNAL PROCESSOR (AD/DA)  
**VPR-12 (3/6)**  
BOARD NO. 1-657-805-11  
LOT NO. 409-  
P-VVVW250-VPR12-11-S/M

DVW-250/250P

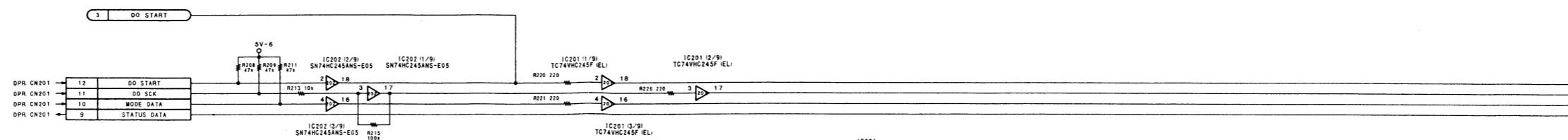
J

P

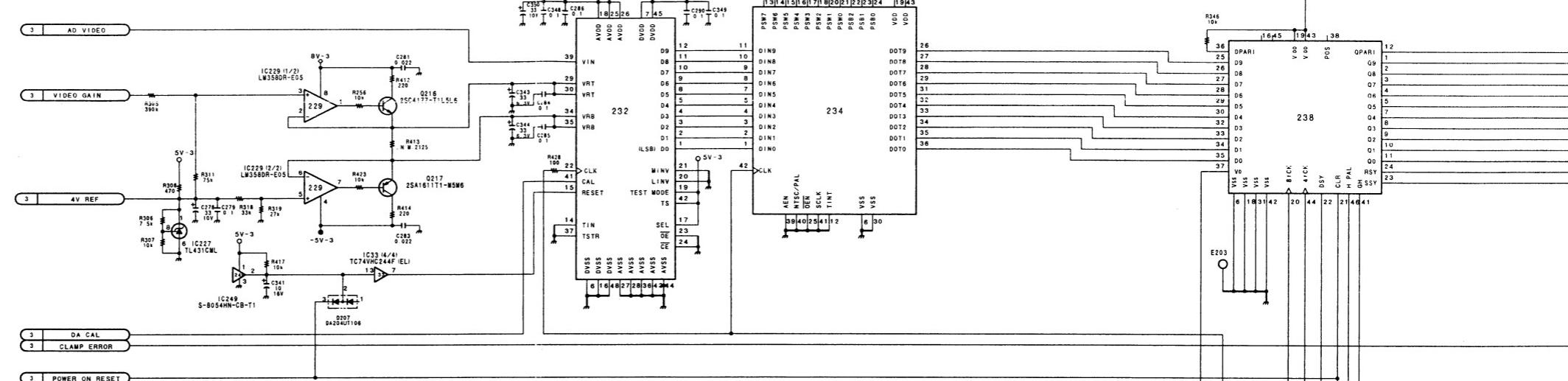
VPR-12 (4/6) VPR-12 (4/6)

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

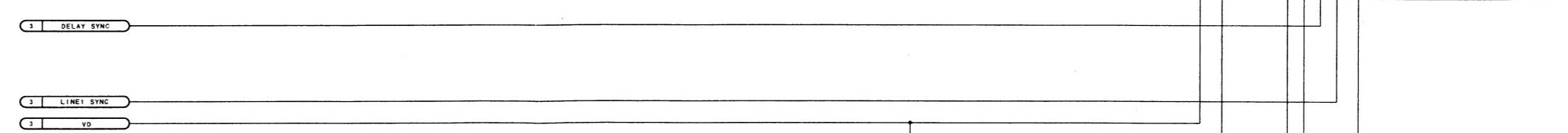
1



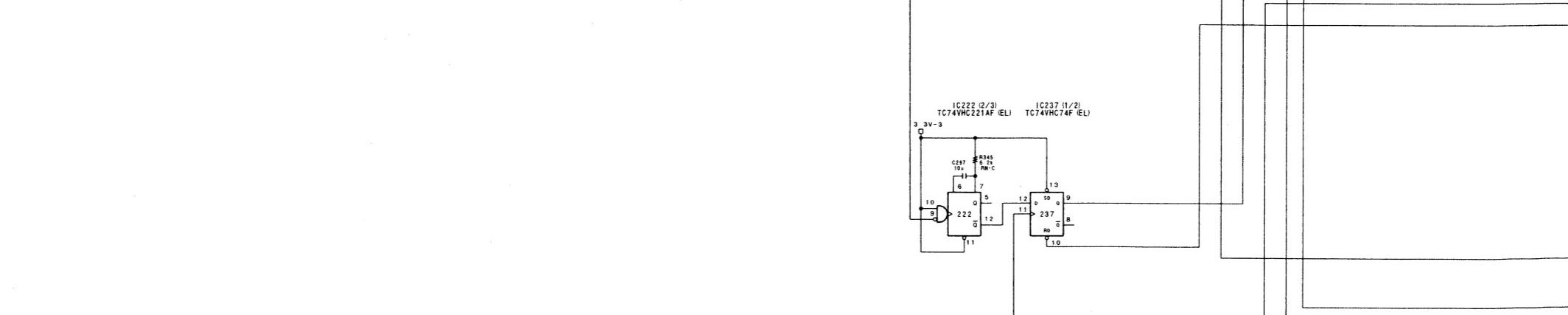
2



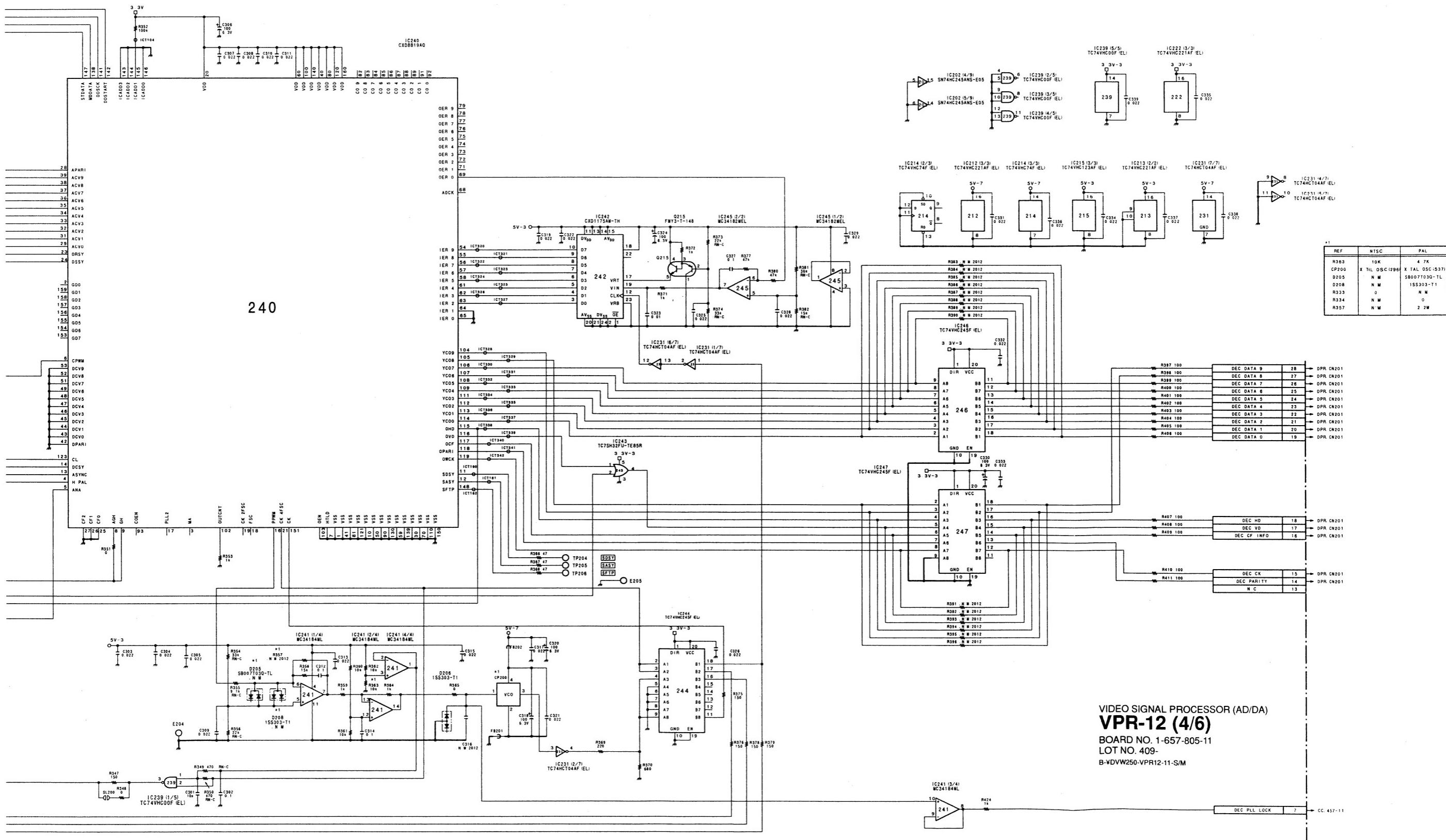
3



4



5



DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

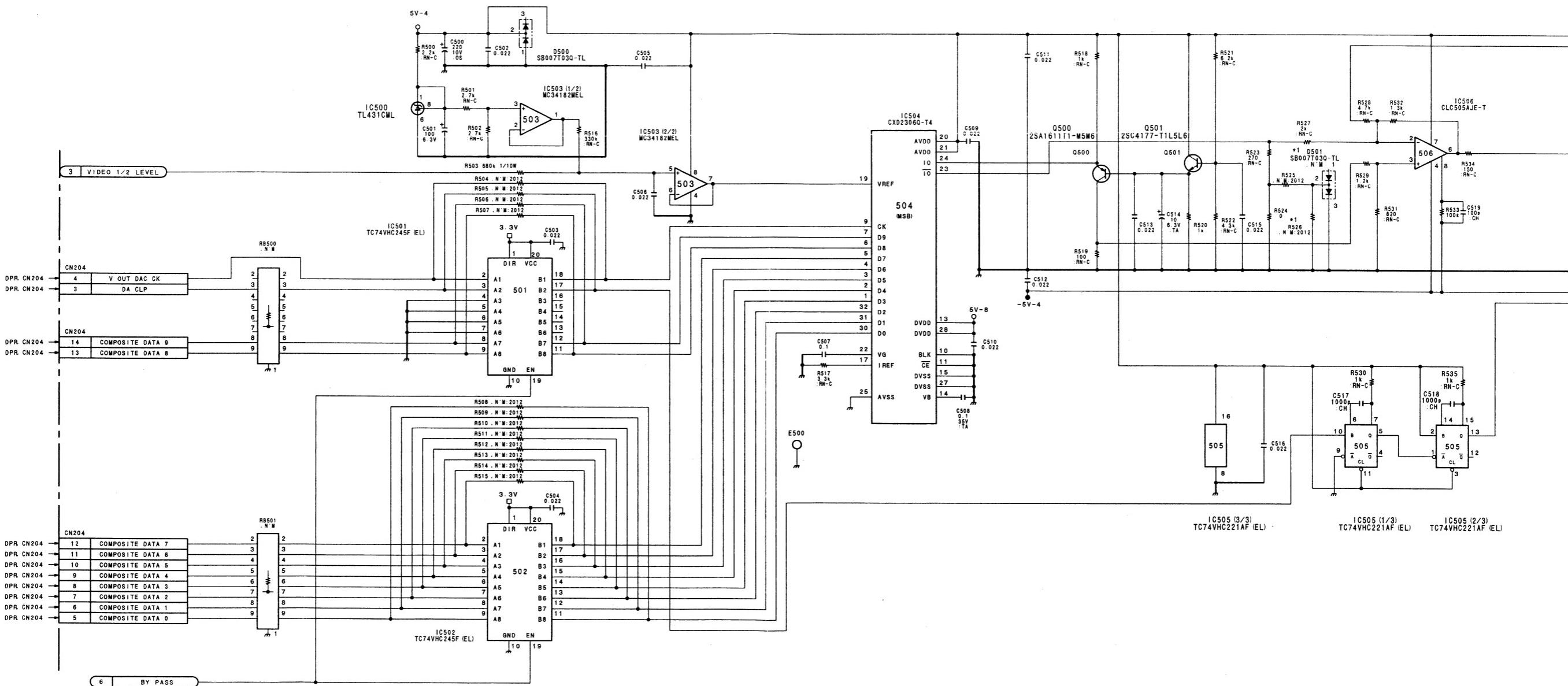
1

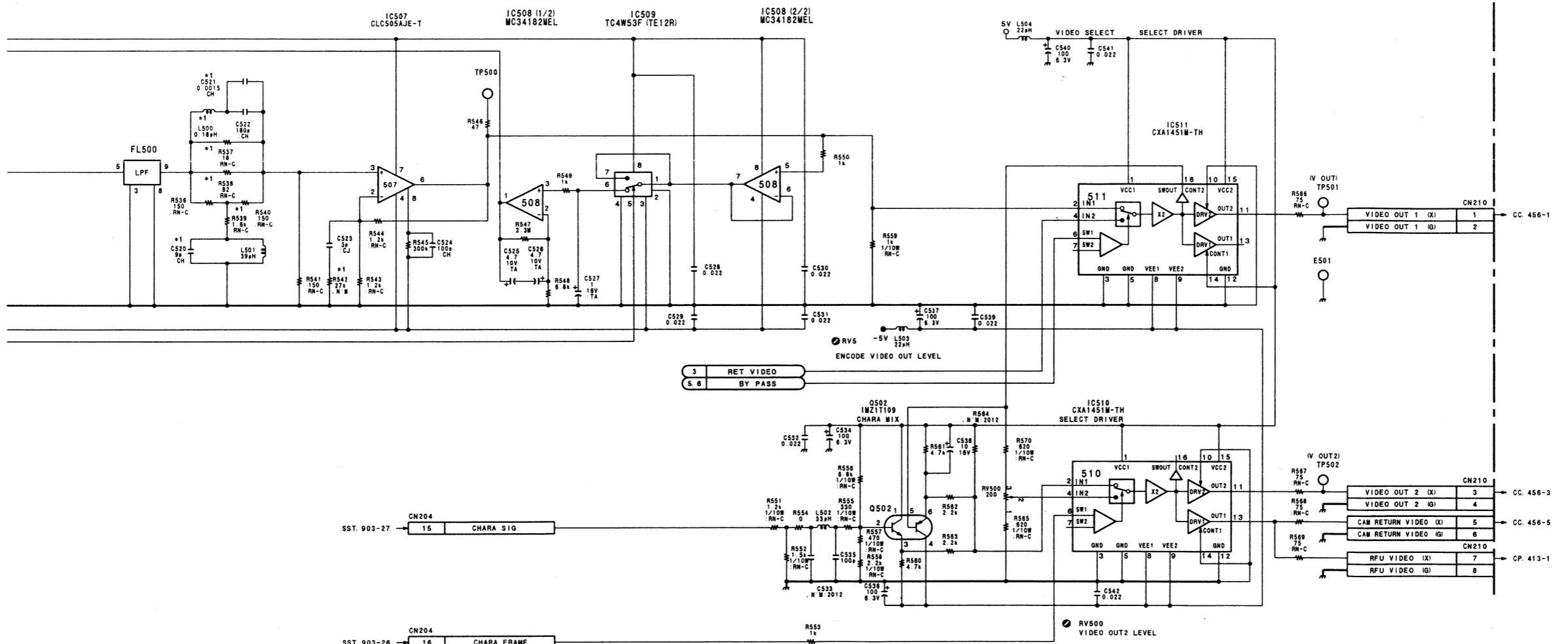
2

3

4

5





VIDEO SIGNAL PROCESSOR (AD/DA)

VPR-12 (5/6)

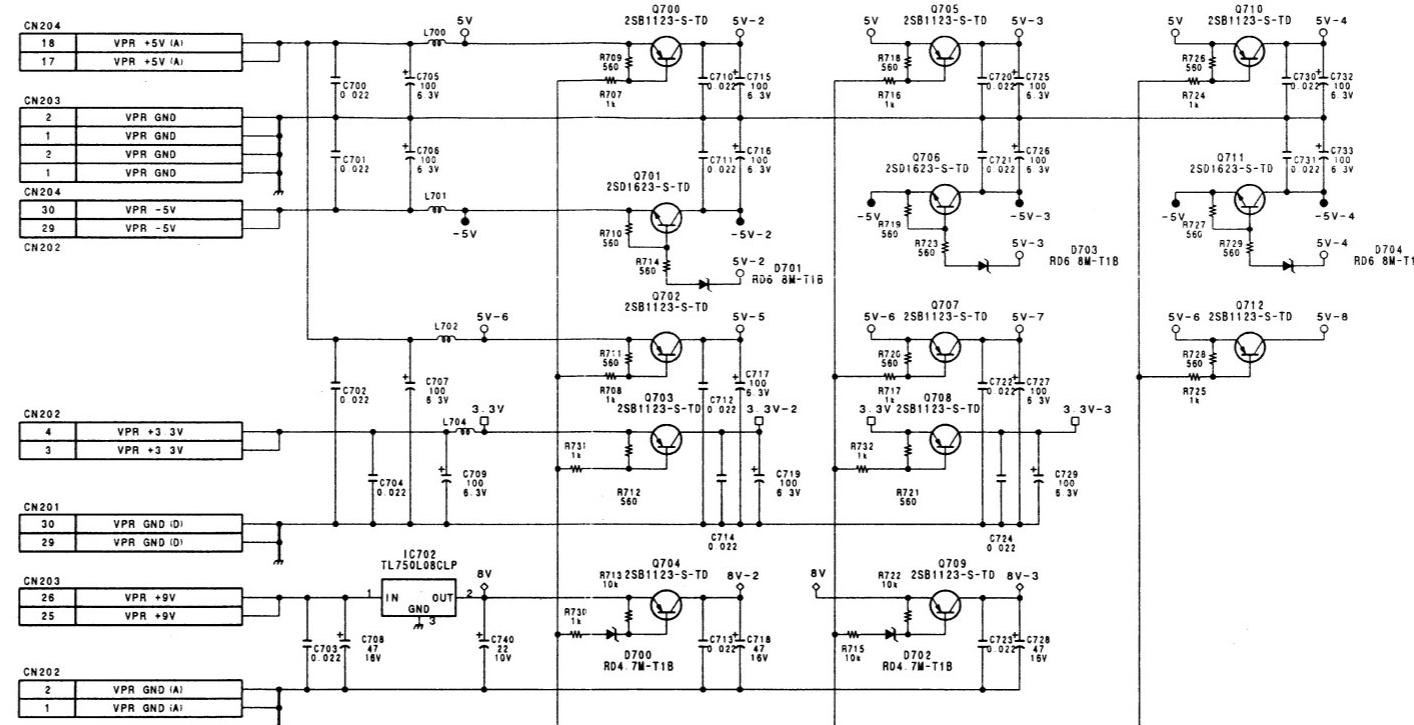
BOARD NO. 1

BOARD NO. 1-657-6  
LOT NO. 409-

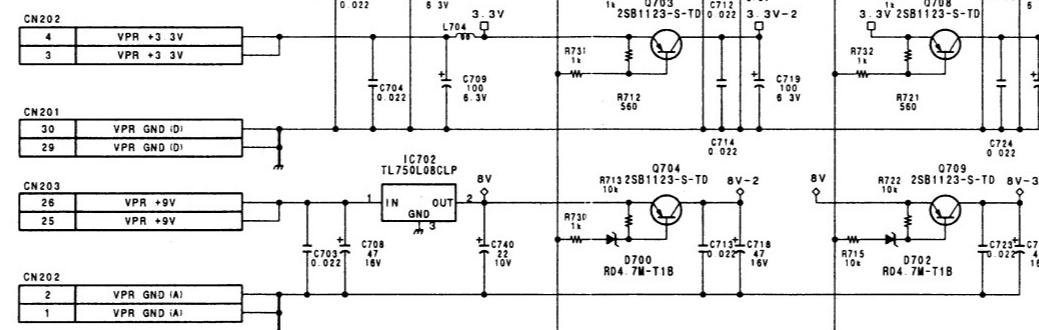
VPR-12 (6/6) VPR-12 (6/6)

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

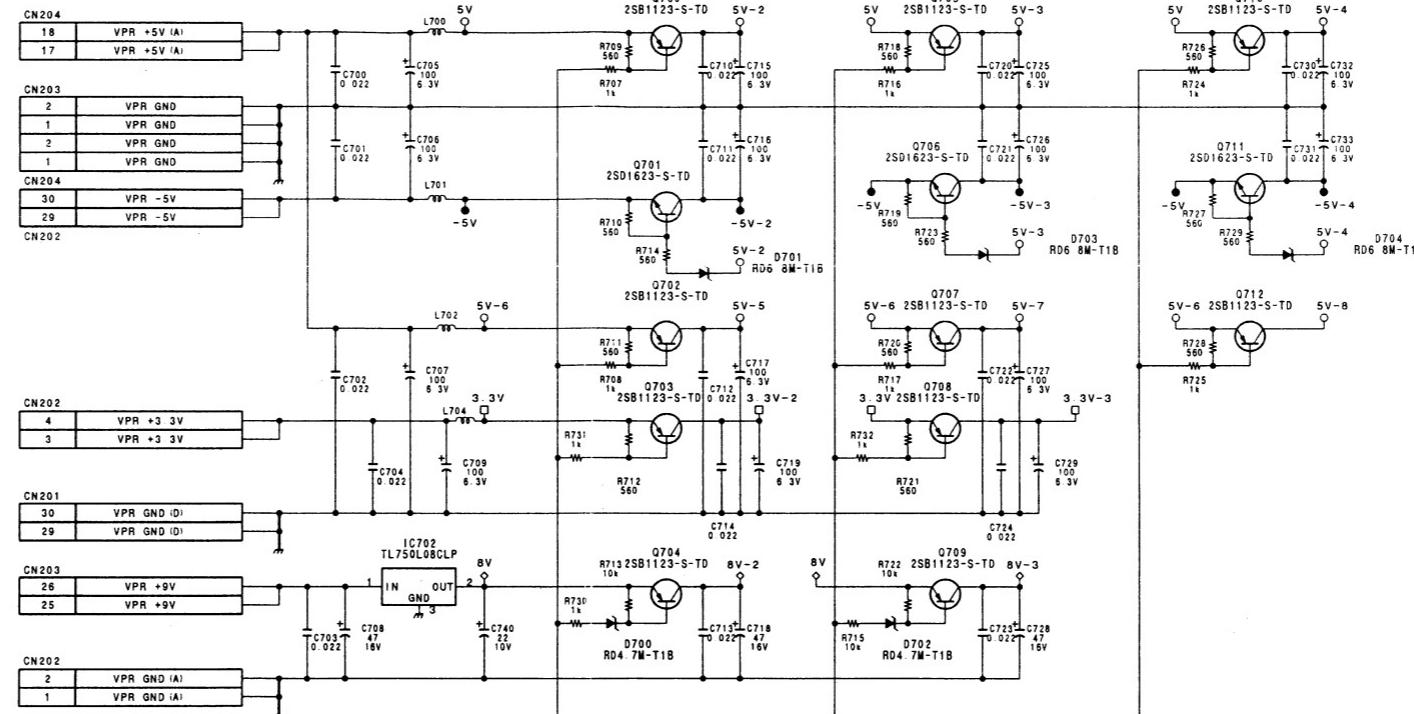
1



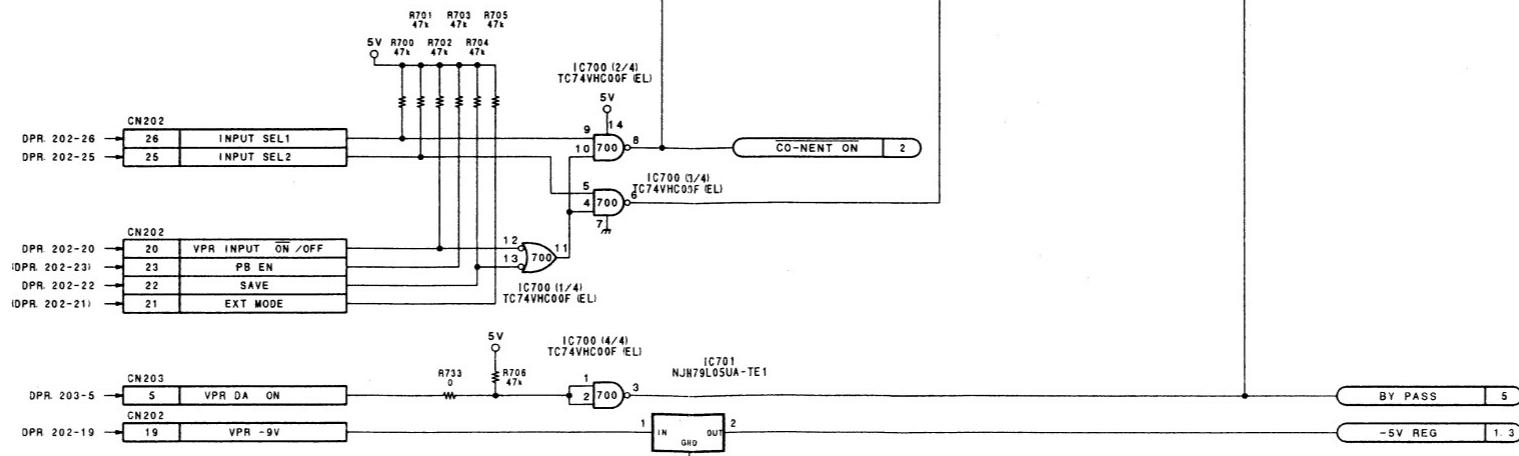
2



3



4



5

VIDEO SIGNAL PROCESSOR (AD/DA)  
**VPR-12 (6/6)**  
BOARD NO. 1-657-805-11  
LOT NO. 409-  
B-YDVW250-VPR12-11-S/M

DVW-250/250P

3-18

3-18

A

B

C

D

E

F

G

H



DIF-31 (1/3) DIF-31 (1/3)

DVW-250(J)  
DVW-250(UC)  
DVW-250P(SY)

DIF-31 (1-657-802-11)

1

CN205 D3 Q323 C3  
CN251 A3 Q324 B3  
CN252 A4 Q325 B3  
CN253 A4 Q326 C3  
CN254 A3 Q327 B3  
D200 D2 Q500 D2  
Q501 D3

E300 \*D1  
E301 \*A2 RB100 \*E1  
E302 A5 RB102 D2  
E303 D5 RB103 \*E1  
RB105 D2

FB300 \*A3 RB106 \*D1  
FB301 \*A3 RB107 \*D1  
FB302 \*A5 RB108 D2  
FB303 B3 RB111 \*A2  
FB304 B3 RB112 \*B2  
FB305 \*D3 RB300 B3  
FB310 \*A5 RB301 \*D3

RB310 B4  
IC100 D2 RB311 B4  
IC101 \*D1 RB312 B3  
IC102 \*D1 RB500 D4  
IC104 D2 RB501 D3  
IC105 \*D1 RB502 D4

IC106 \*D2  
IC107 \*C1 RV100 \*B3  
IC108 B1 RV300 \*A3

IC110 \*B2  
IC300 A3 S300 \*C4  
IC301 \*B4

IC302 C2 TP101 \*B3  
IC303 C2 TP301 \*A4  
IC304 C4 TP303 \*C3

IC305 \*B4  
IC306 C3 \* : Soldering Side

IC308 B5  
IC309 D5  
IC310 D5

IC311 D4  
IC312 \*D4

IC313 C2  
IC500 D4

IC501 D3  
IC502 C4

IC503 D4  
IC504 D3

IC505 C3  
IC506 C3

IC508 C4  
IC511 C5

4

L100 B3  
Q100 B3

Q101 A3  
Q102 A2

Q103 A2  
Q104 \*B3

Q300 A4  
Q301 A3

Q302 A3  
Q303 \*A3

Q306 B3  
Q307 C4

Q308 B4  
Q309 C4

Q310 B4  
Q311 C4

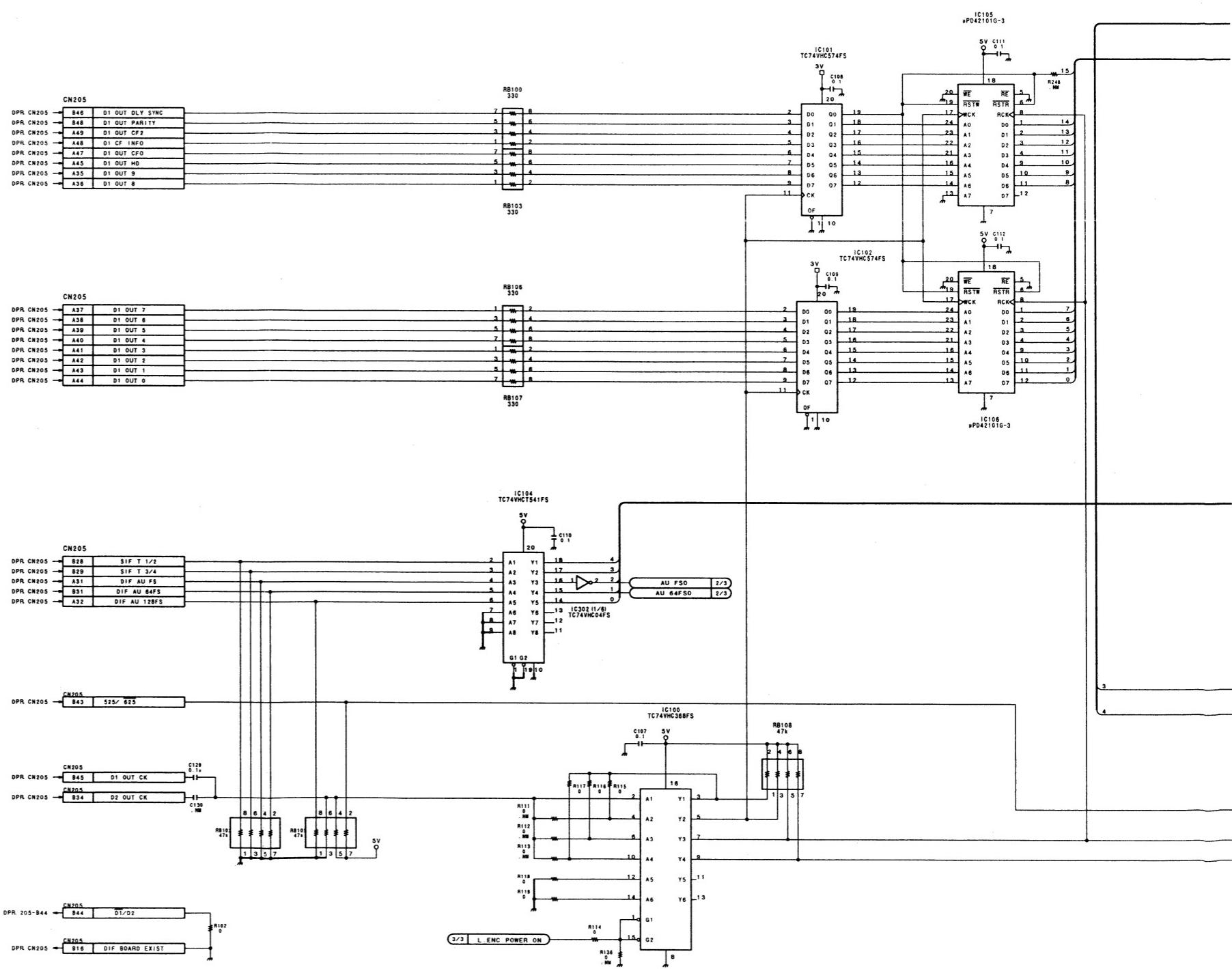
Q312 B4  
Q313 C4

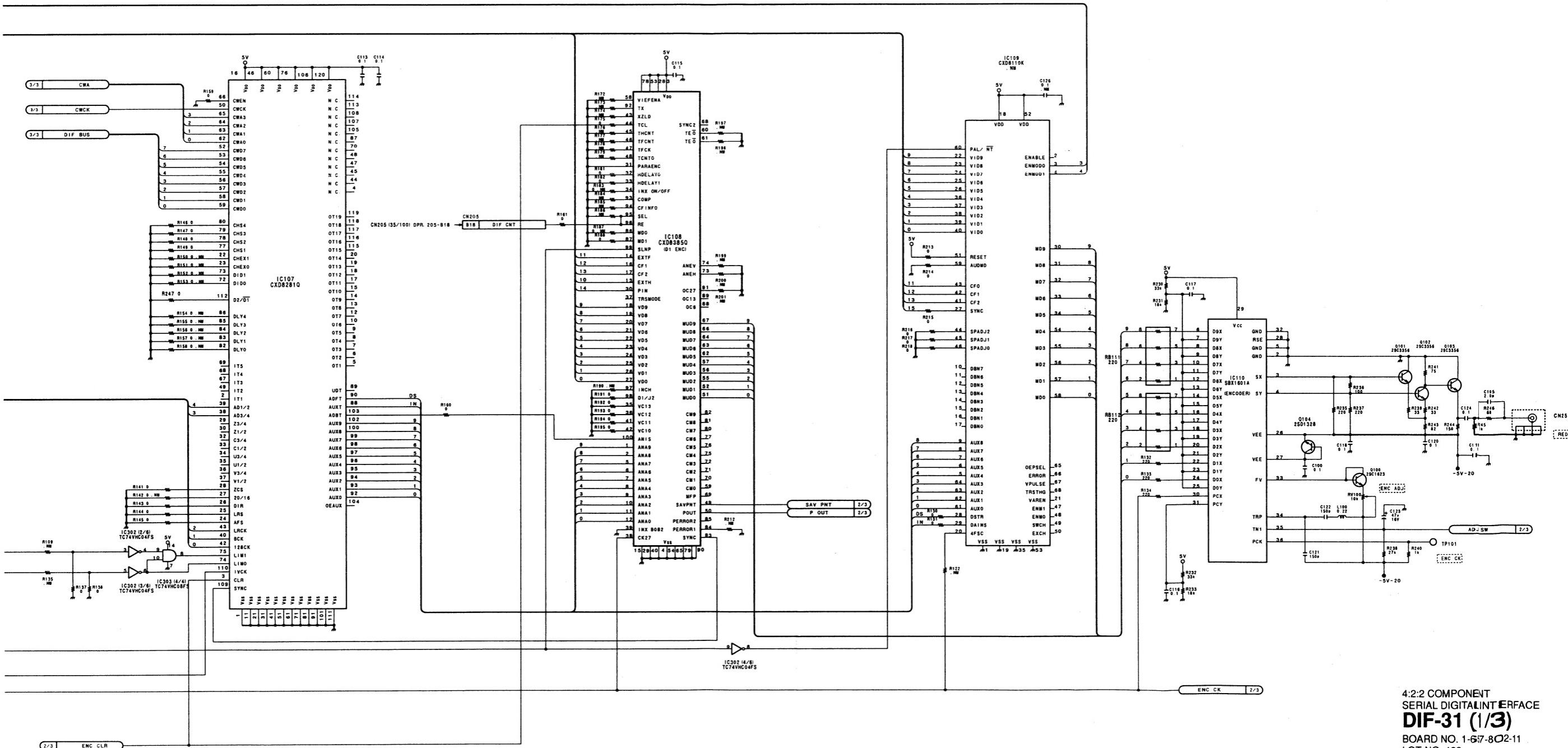
Q314 B4  
Q315 C4

Q316 B4  
Q317 C4

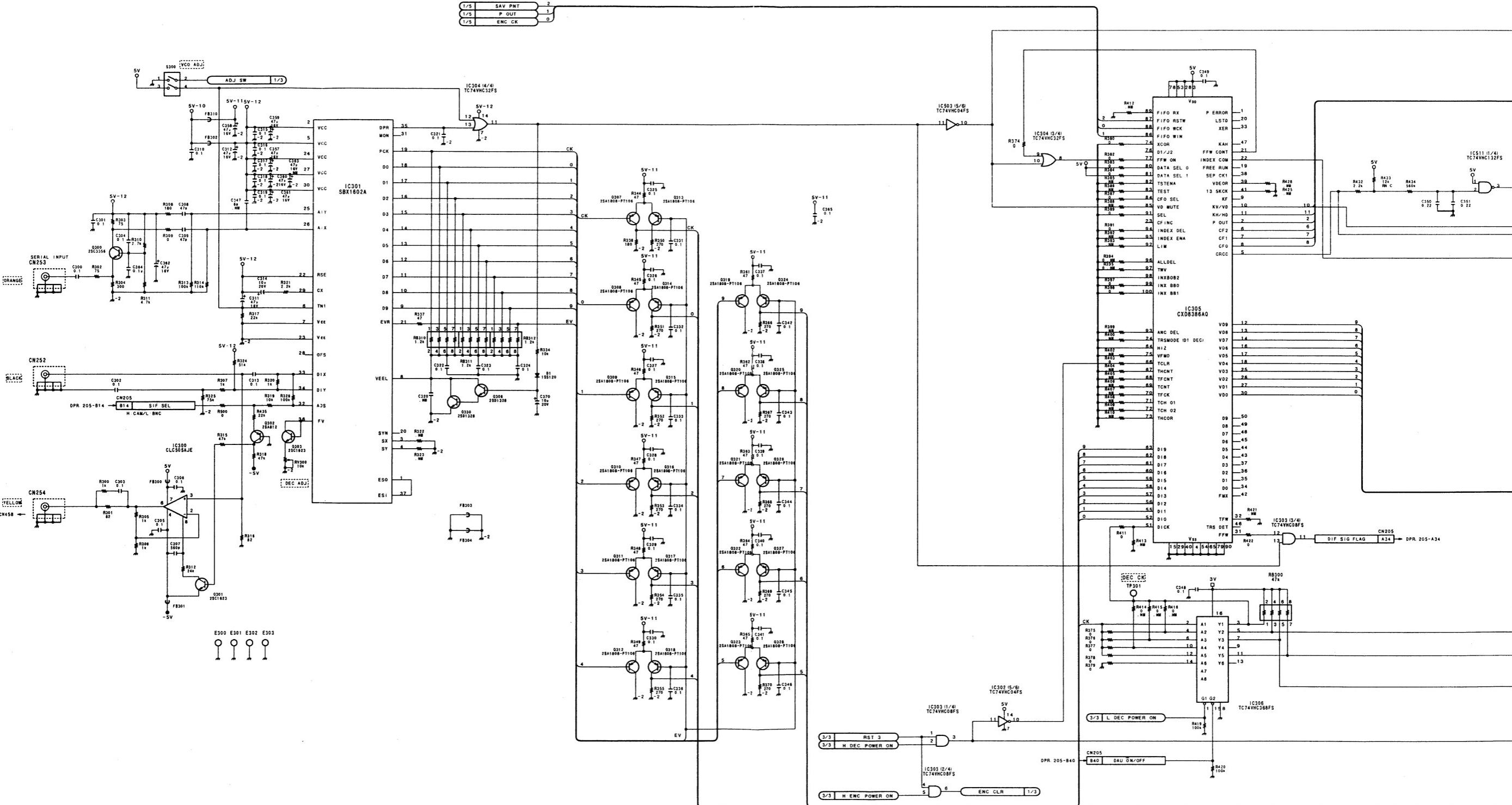
Q318 B4  
Q319 B3

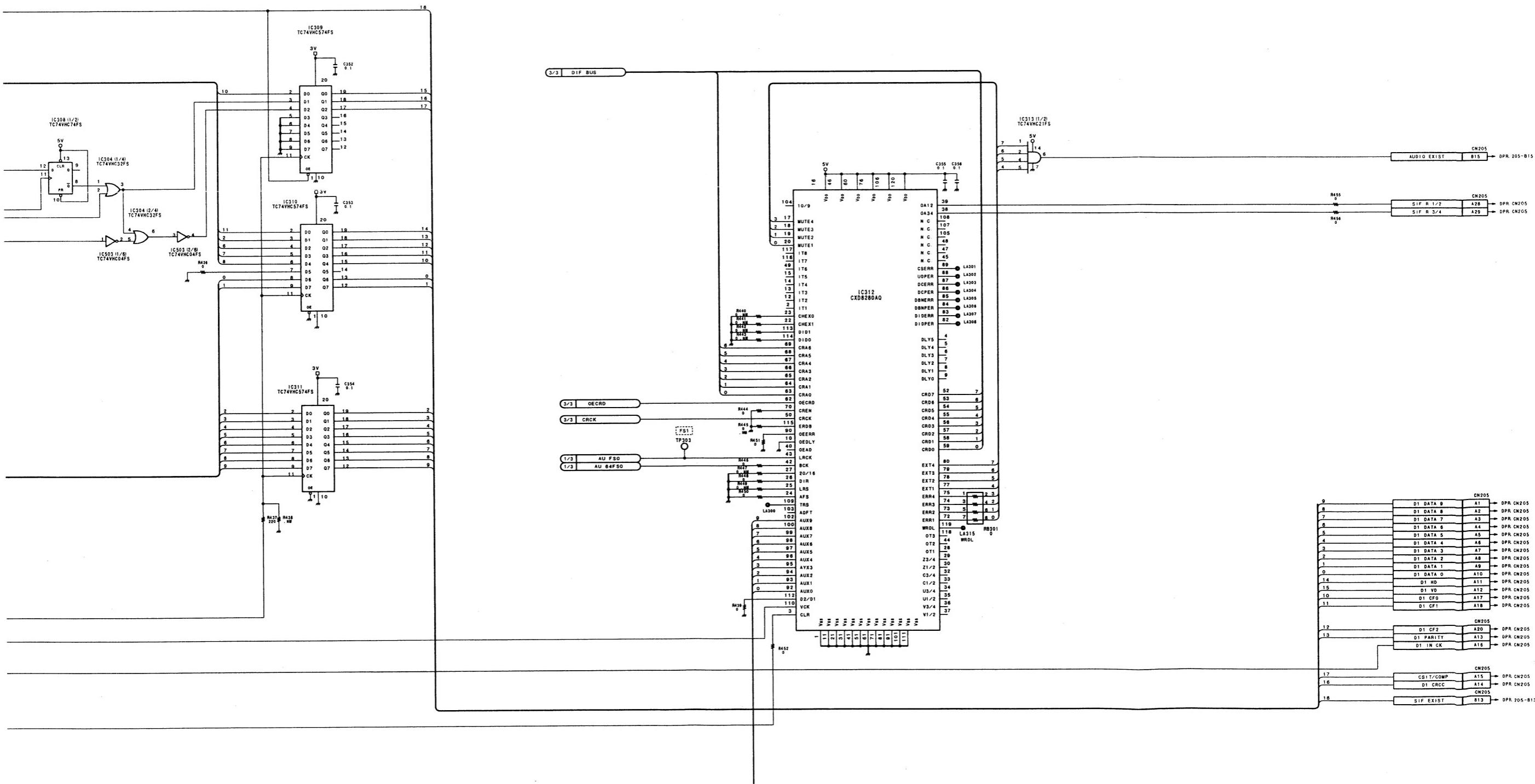
Q320 B3  
Q321 C3  
Q322 B3





DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)





4:2:2 COMPONENT  
SERIAL DIGITAL INTERFACE

**DIF-31 (2/3)**

BOARD NO. 1-65730-2-11  
LOT NO. 409-  
B-VDVW250-DIF31-11

**DIF-31 (3/3)      DIF-31 (3/3)**

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

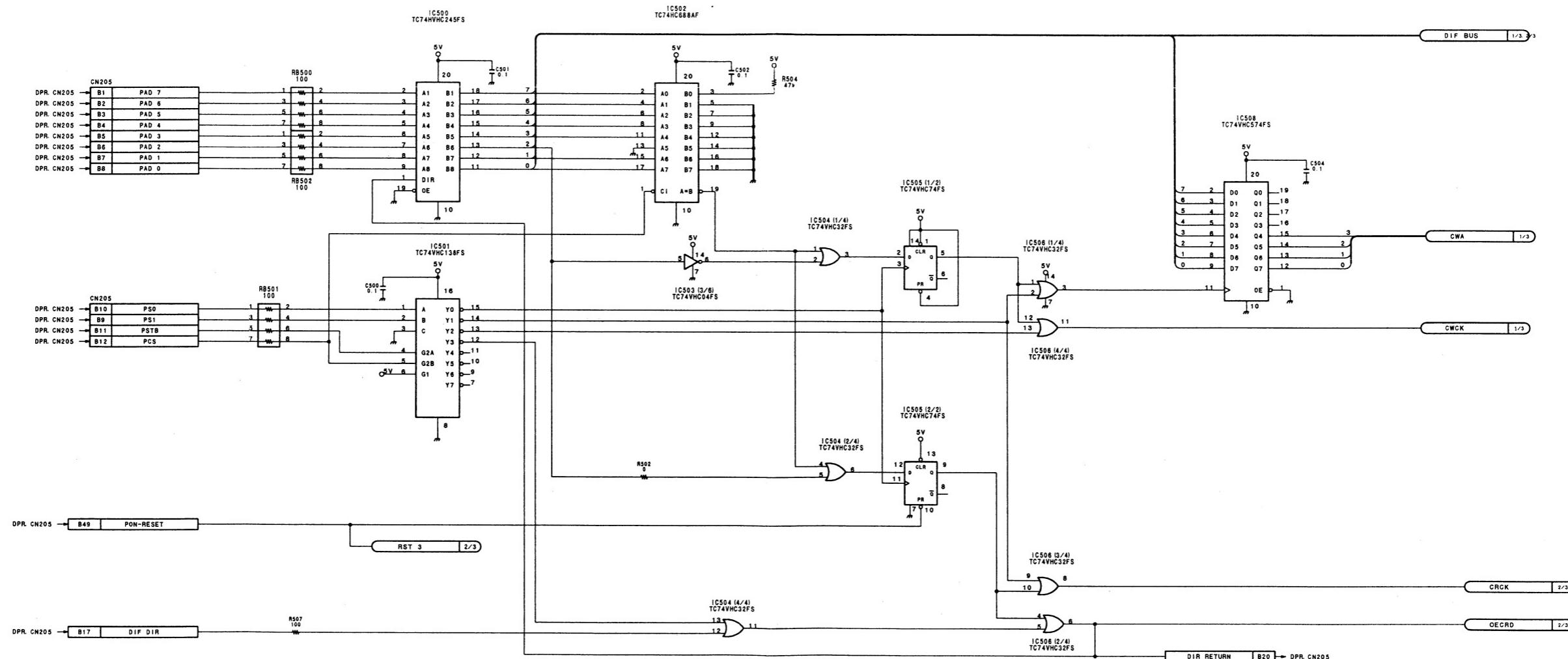
1

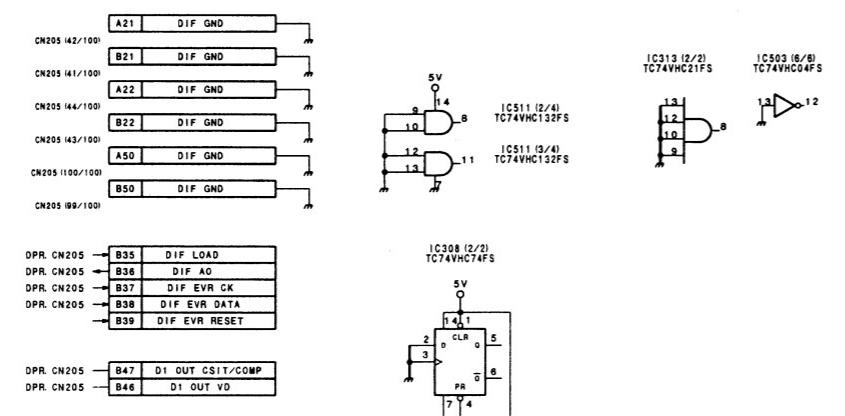
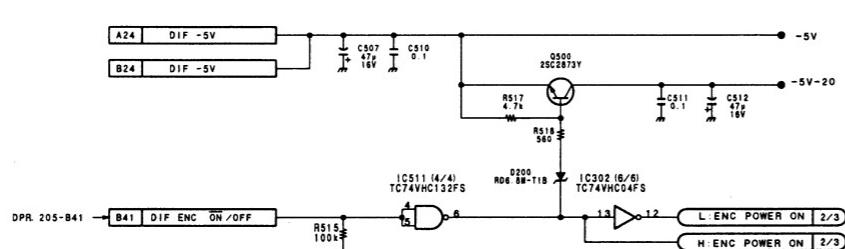
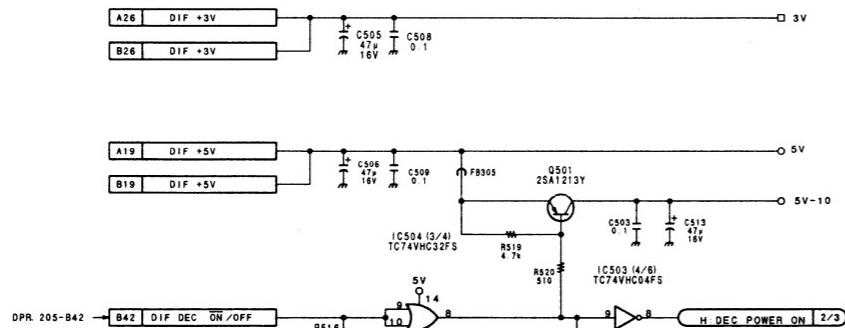
2

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5

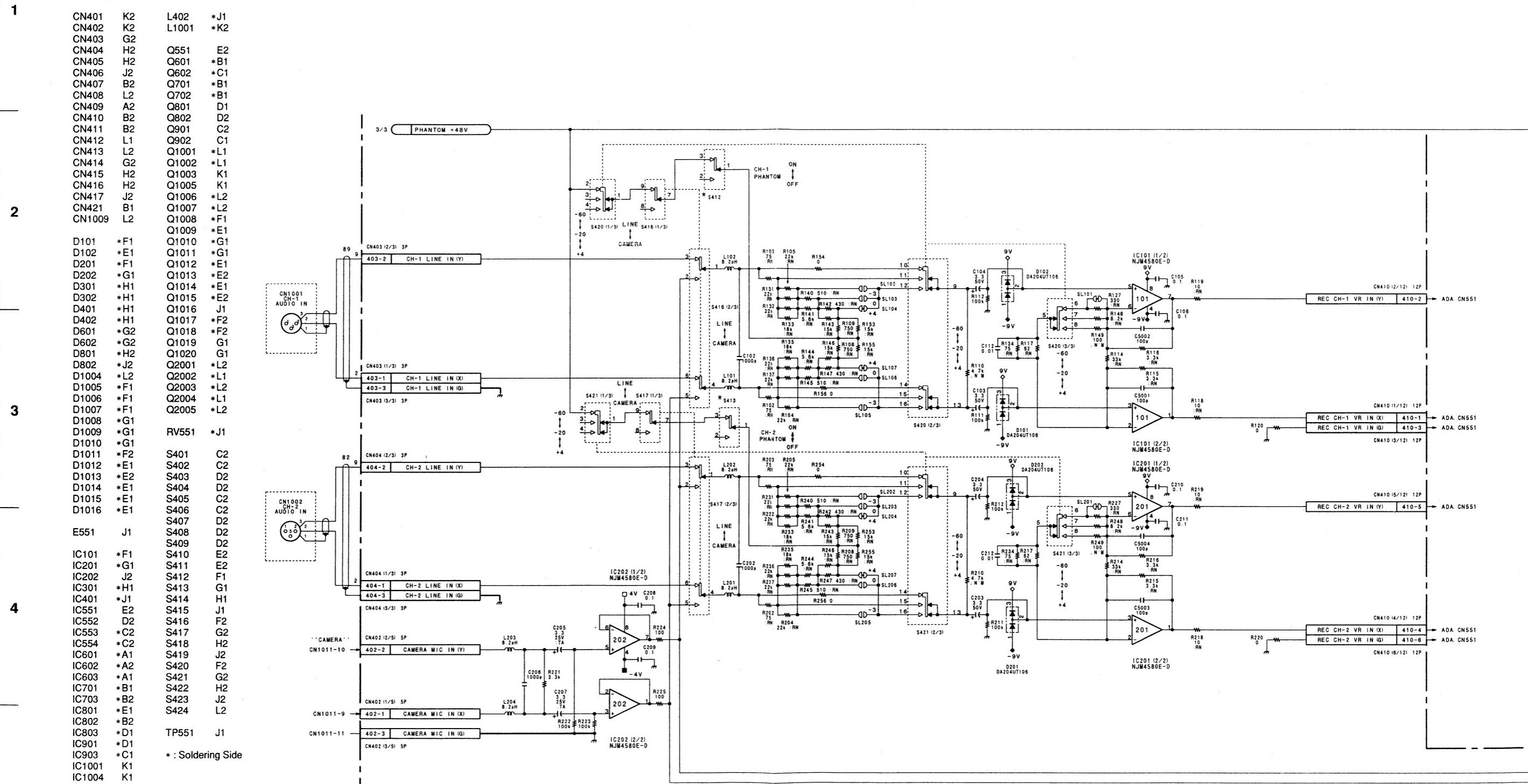


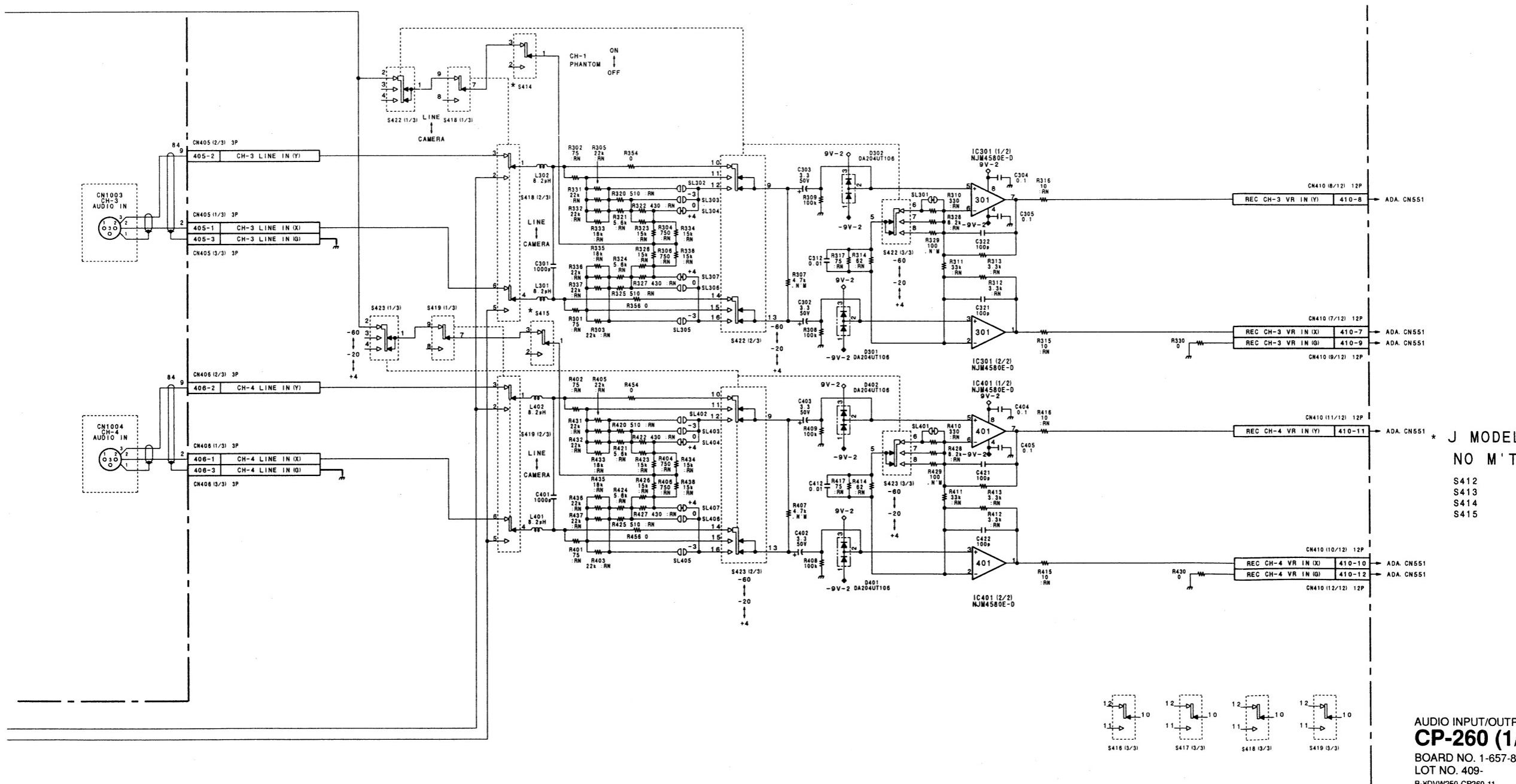


4:2:2 COMPONENT  
SERIAL DIGITAL INTERFACE  
**DIF-31 (3/3)**  
BOARD NO. 1-657-802-11  
LOT NO. 409-  
B-VDVW250-DIF31-11

DVW-250 (J)  
 DVW-250 (UC)  
 DVW-250P (SY)

CP-260 (1-657-812-11)

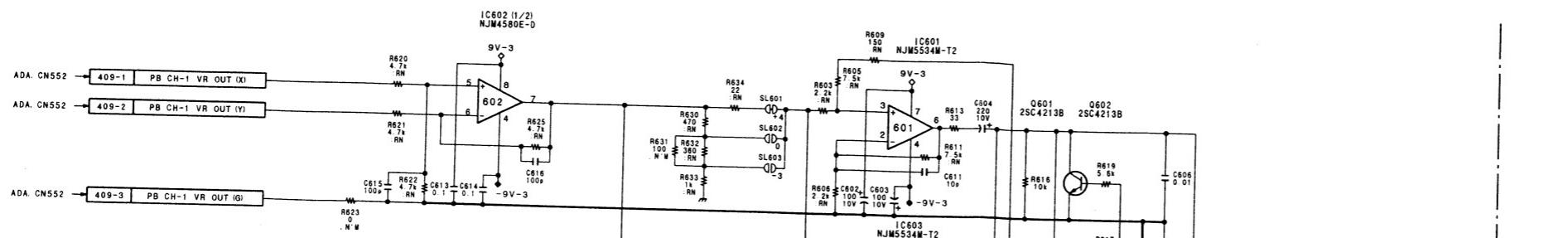




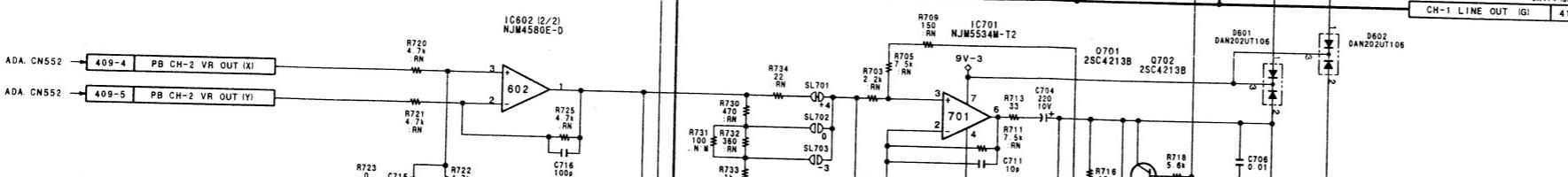
**CP-260 (2/3) CP-260 (2/3)**

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

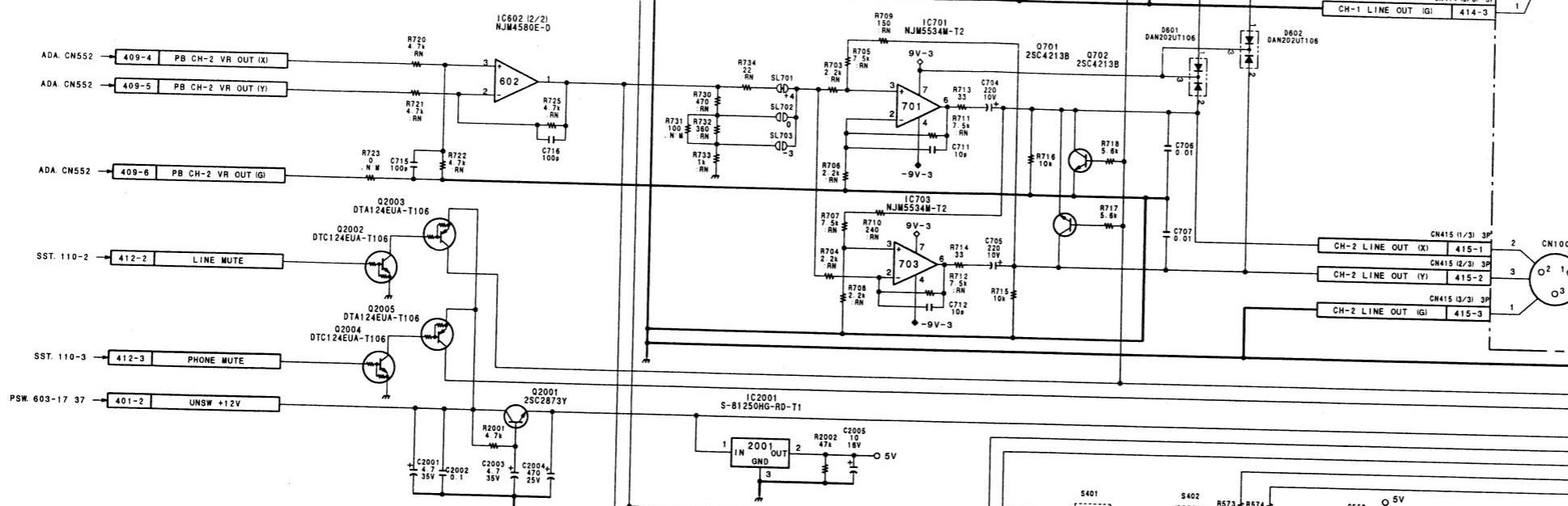
1



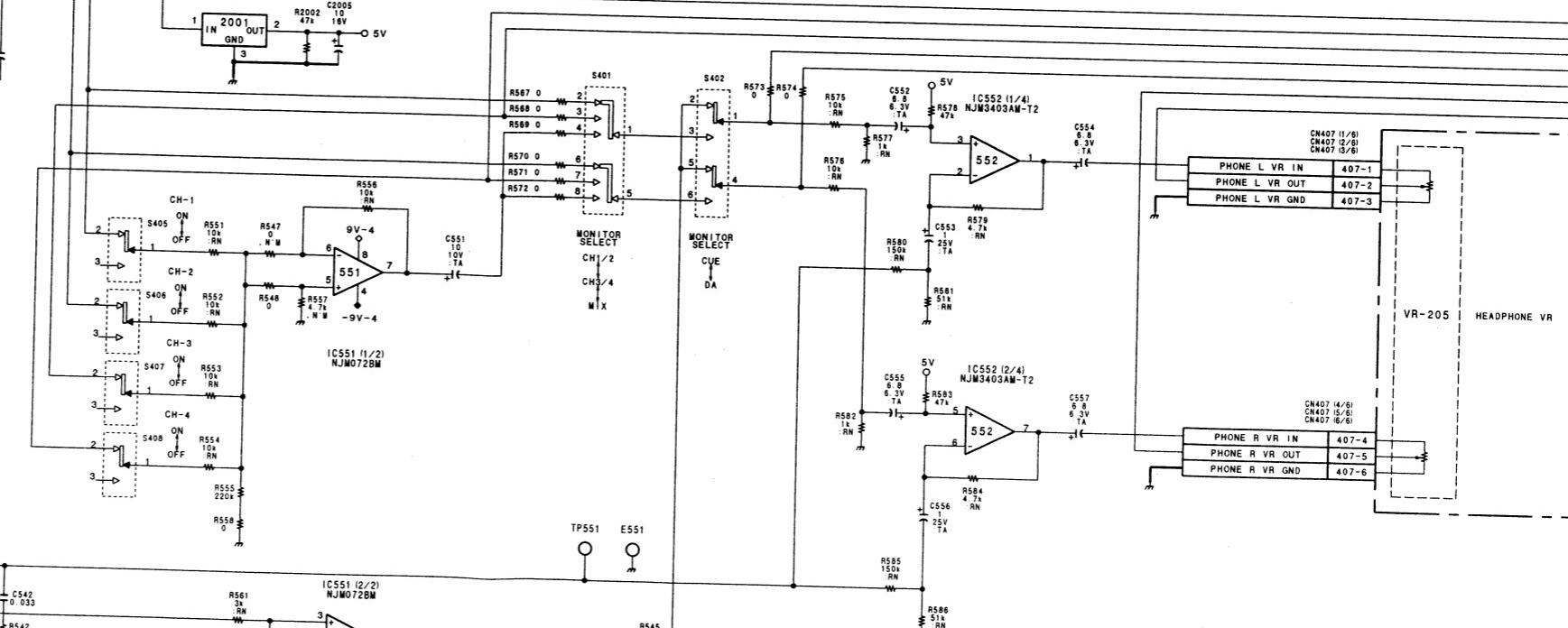
2



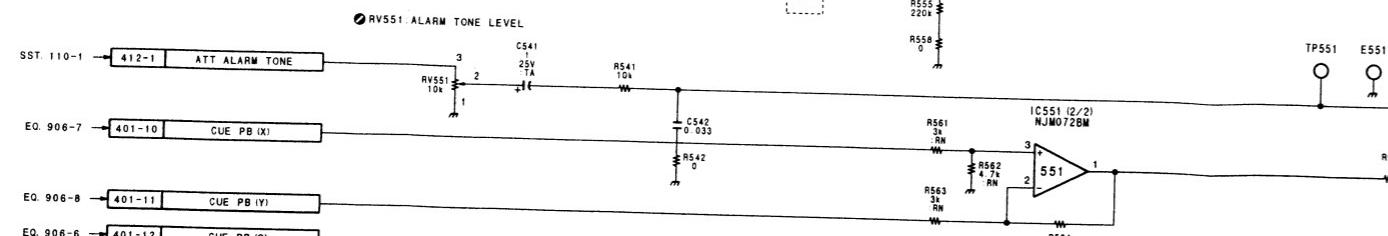
3



4



5



A

B

C

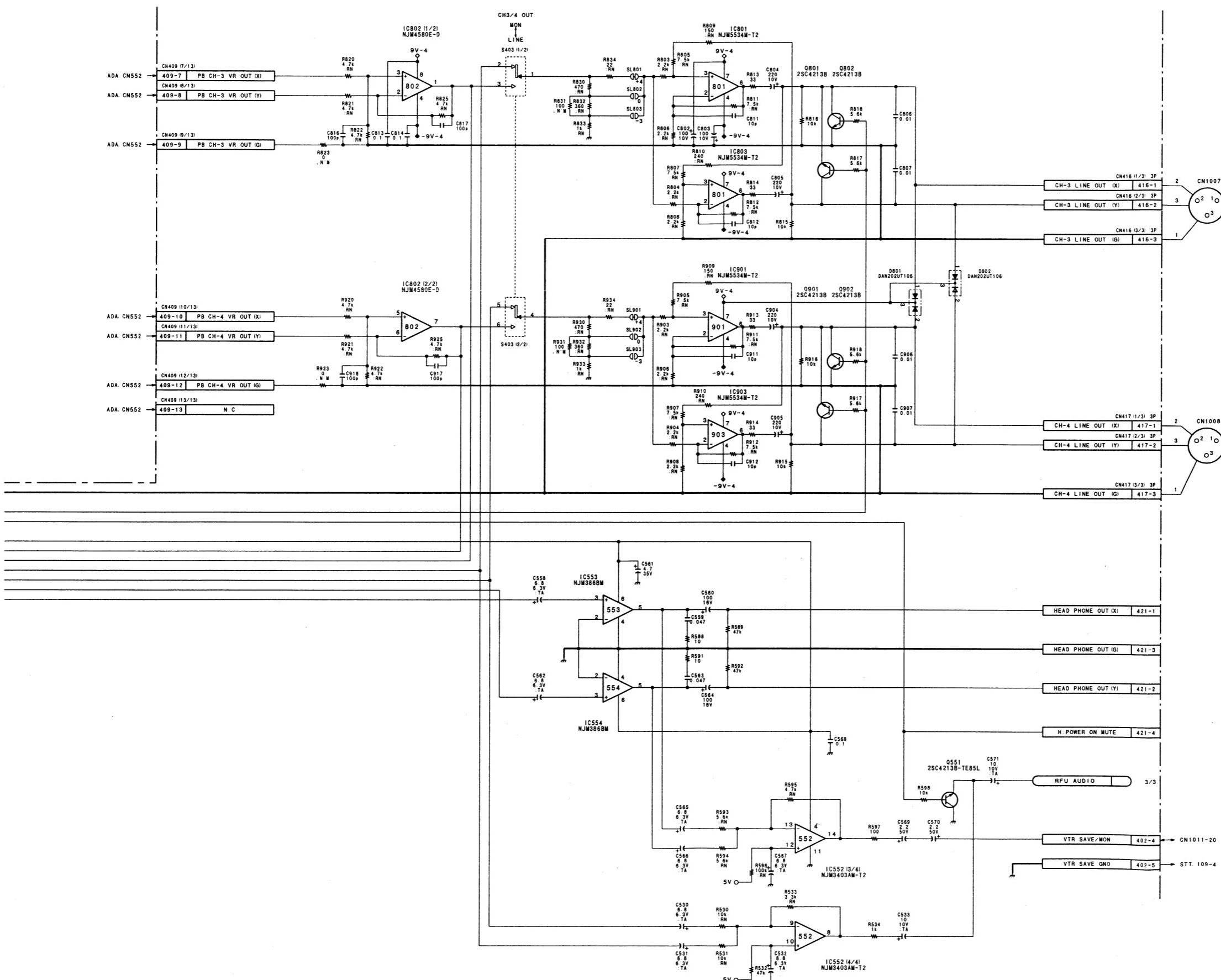
D

E

F

G

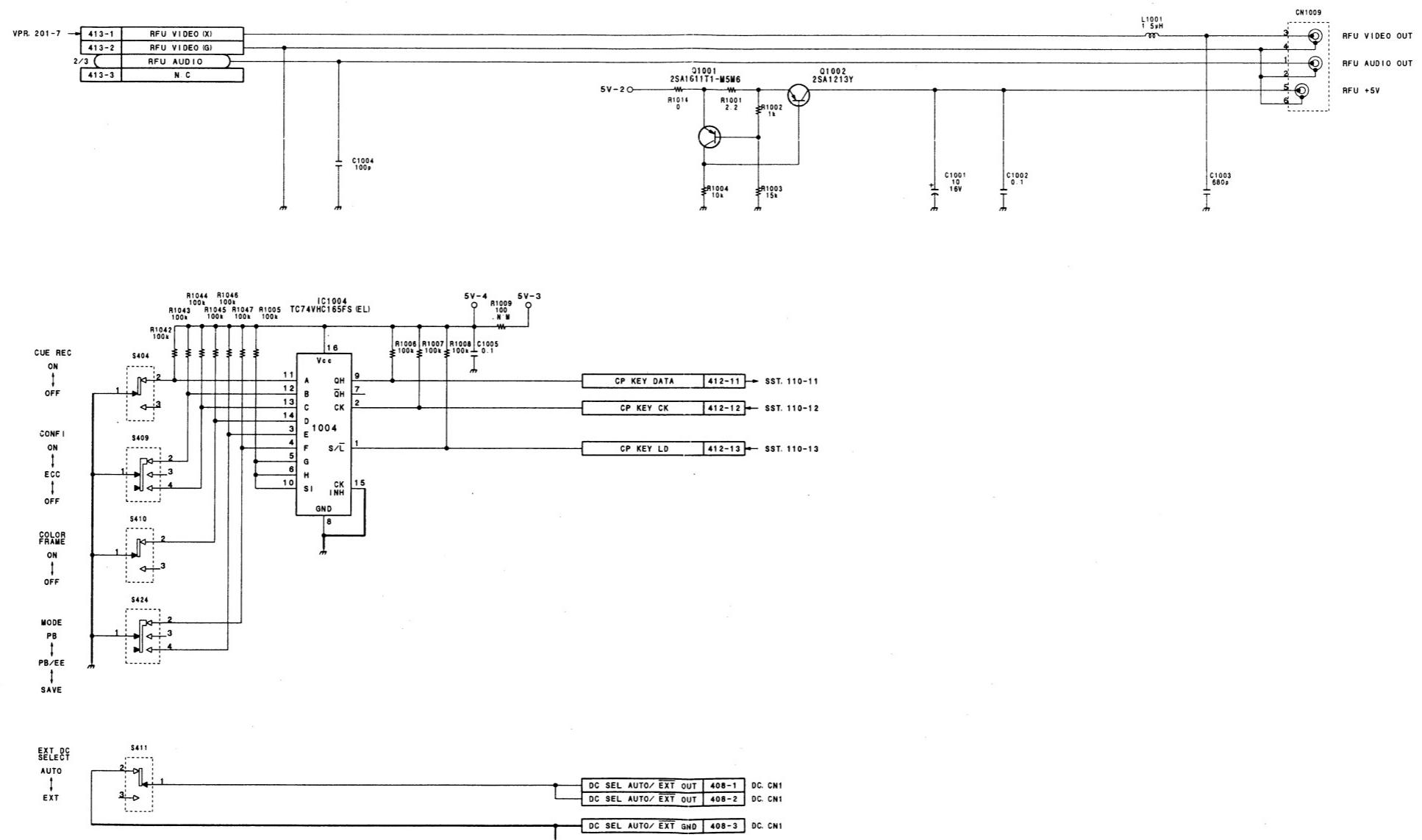
DVW-250/250P  
H



AUDIO INPUT/OUTPUT, PANEL SWITCHES  
**CP-260 (2/3)**  
 BOARD NO. 1-657-812-11  
 LOT NO. 409-  
 B-YDVW250-CP260-11

**CP-260 (3/3)**

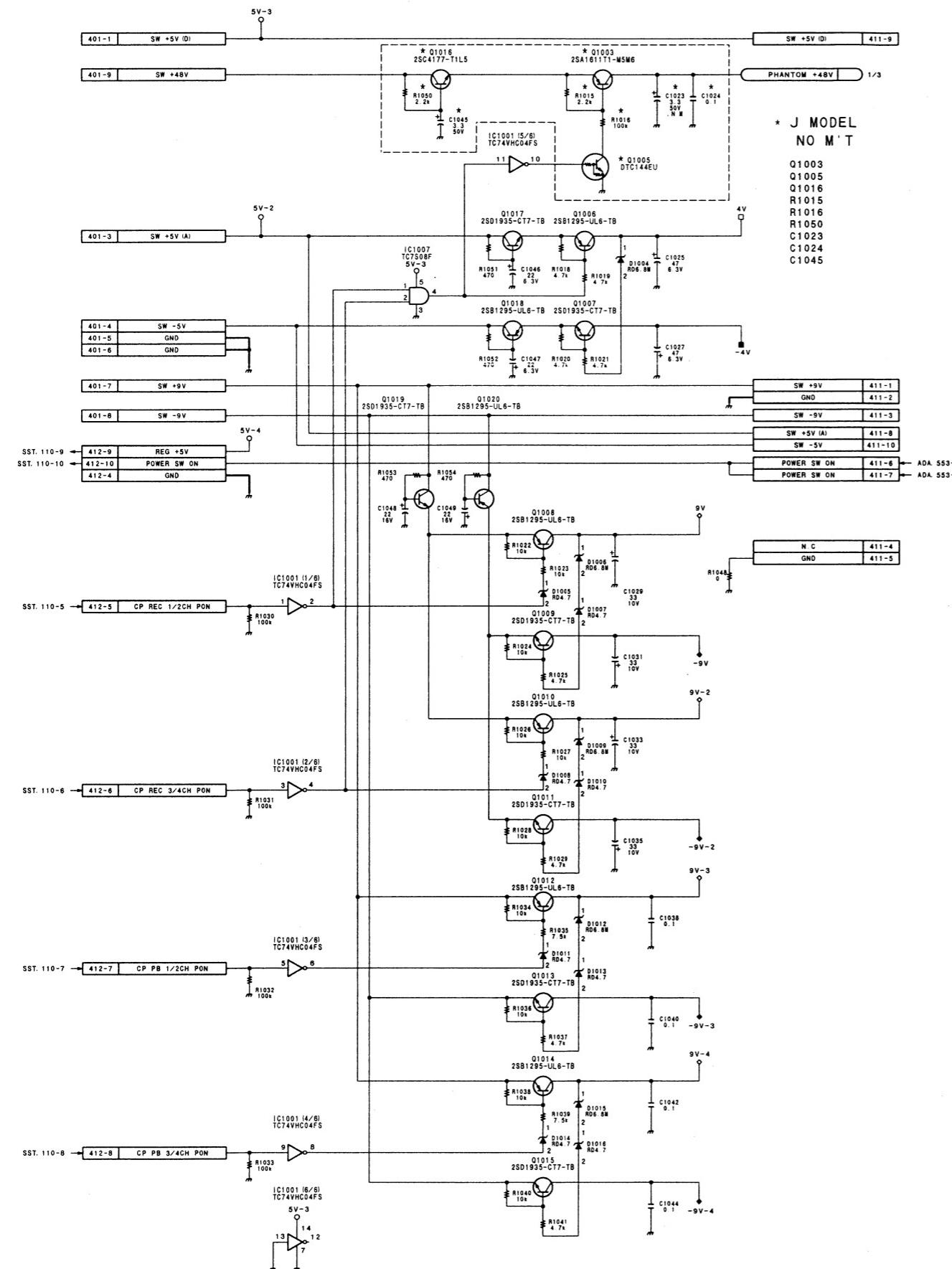
DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)



3-30

3-30

DVW-250/250P



AUDIO INPUT/OUTPUT, PANEL SWITCHES  
**CP-260 (3/3)**  
BOARD NO. 1-657-812-11  
LOT NO. 409-  
B-VDVW250-CP260-11

**ADA-44 (1/3)      ADA-44 (1/3)**

**DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)**

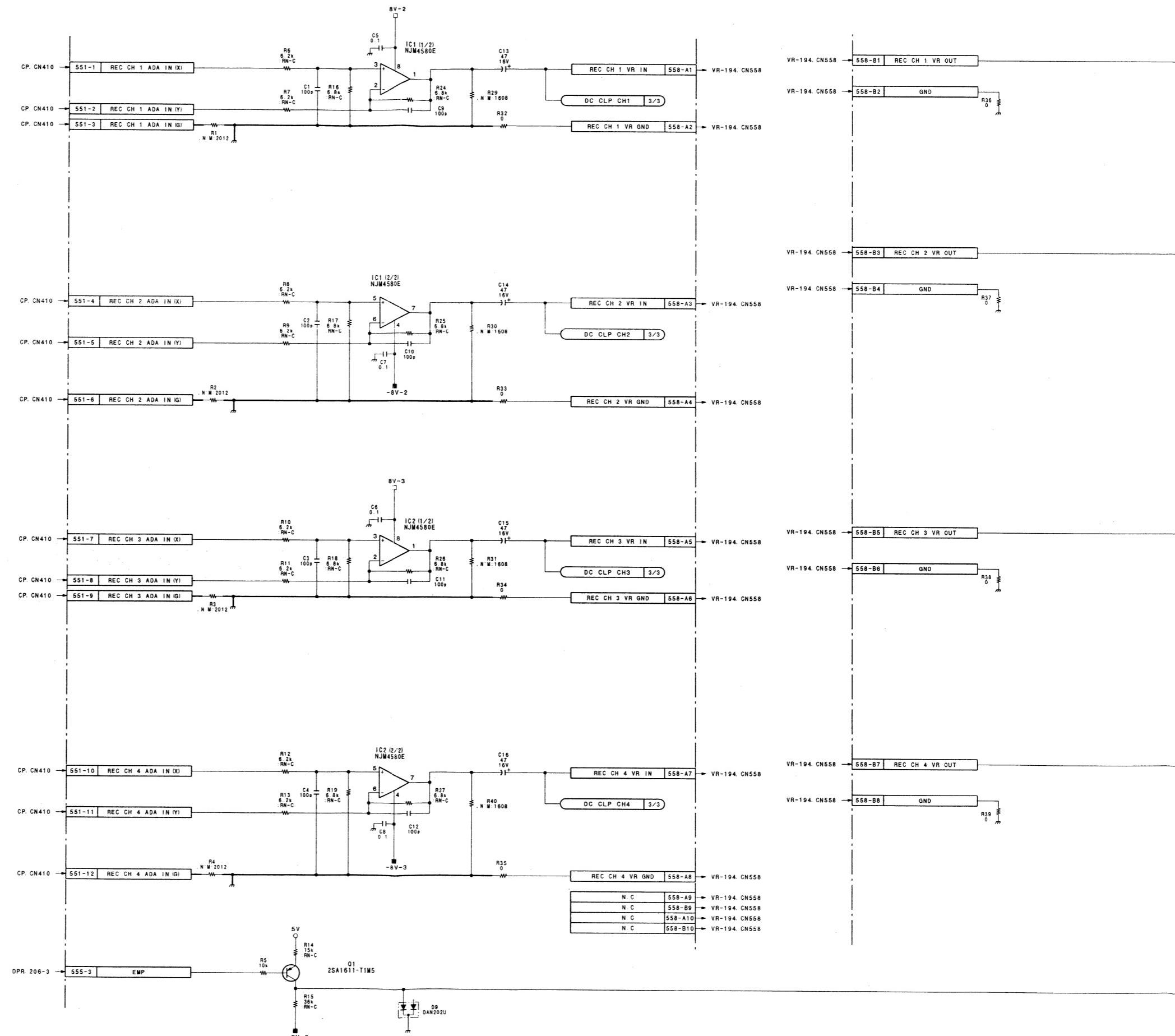
**ADA-44 (1-657-810-11)**

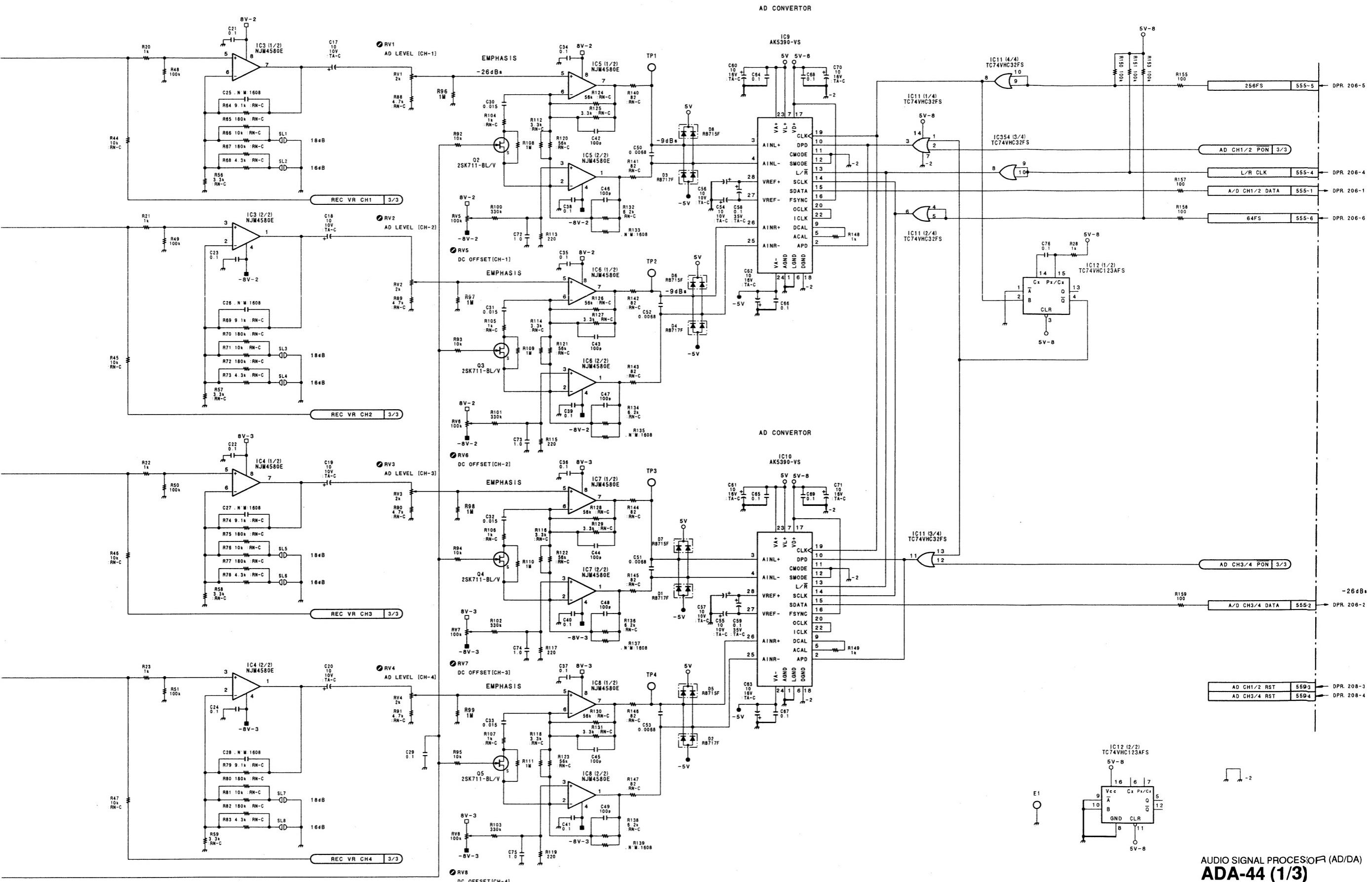
CN551	M1	Q207	*E1
CN552	L1	Q208	*F1
CN553	J1	Q351	*L1
CN554	E3	Q352	*L1
CN555	D3	Q353	L1
CN556	B3	Q354	*M1
CN557	*R1	Q355	*L1
CN558	N2	Q356	*L1
CN559	D3	Q357	*M1
D1	*J2	Q359	*L1
D2	*J2	Q360	*L1
D3	*H3	Q361	*H1
D4	*H2	Q362	*J1
D5	*J2	Q364	*H1
D6	*H2	Q365	*J1
D7	*J3	Q366	*G1
D8	*H3	Q367	*J1
D9	*J1	Q368	*G1
D201	*D1	Q369	*J1
D202	*E1		
D351	*R3	RV1	*L3
D354	*G1	RV2	*L2
D355	*F1	RV3	*L2
D356	*H1	RV4	*L2
D357	*H1	RV5	*L3
D358	*J1	RV6	*L2
D359	H1	RV7	*L2
D360	H1	RV8	*L2
D361	*G1	RV40	L3
D362	*H1	RV50	N3
E1	F1	RV60	N3
E2	A1	RV70	P3
		RV201	*A3
		RV202	*A3
IC1	*N2	RV203	*A2
IC2	*L1	RV204	*A2
IC3	*N1	RV205	*C2
IC4	*M1	RV206	*D2
IC5	*K3	RV207	*E2
IC6	*K2	RV208	*E2
IC7	*L1		
IC8	*K1	S1	R3
IC9	H3		
IC10	J3	T1	K3
IC11	G2	T2	K3
IC12	G1	T3	K1
IC201	A3	T4	K1
IC202	A2		
IC203	*B1		
IC204	*C1		
IC205	*C2		
IC206	*D2		
IC207	*D2		
IC208	*E2		
IC209	*D1		
IC210	*E1		
IC310	*F1		
IC351	R3		
IC352	*R1		
IC353	*P1		
IC354	F3		
IC355	F2		
IC356	*R2		
IC357	*G2		
IC358	*G2		
IC359	*F2		
IC360	*F2		
IC361	*R1		

\* : Soldering Side

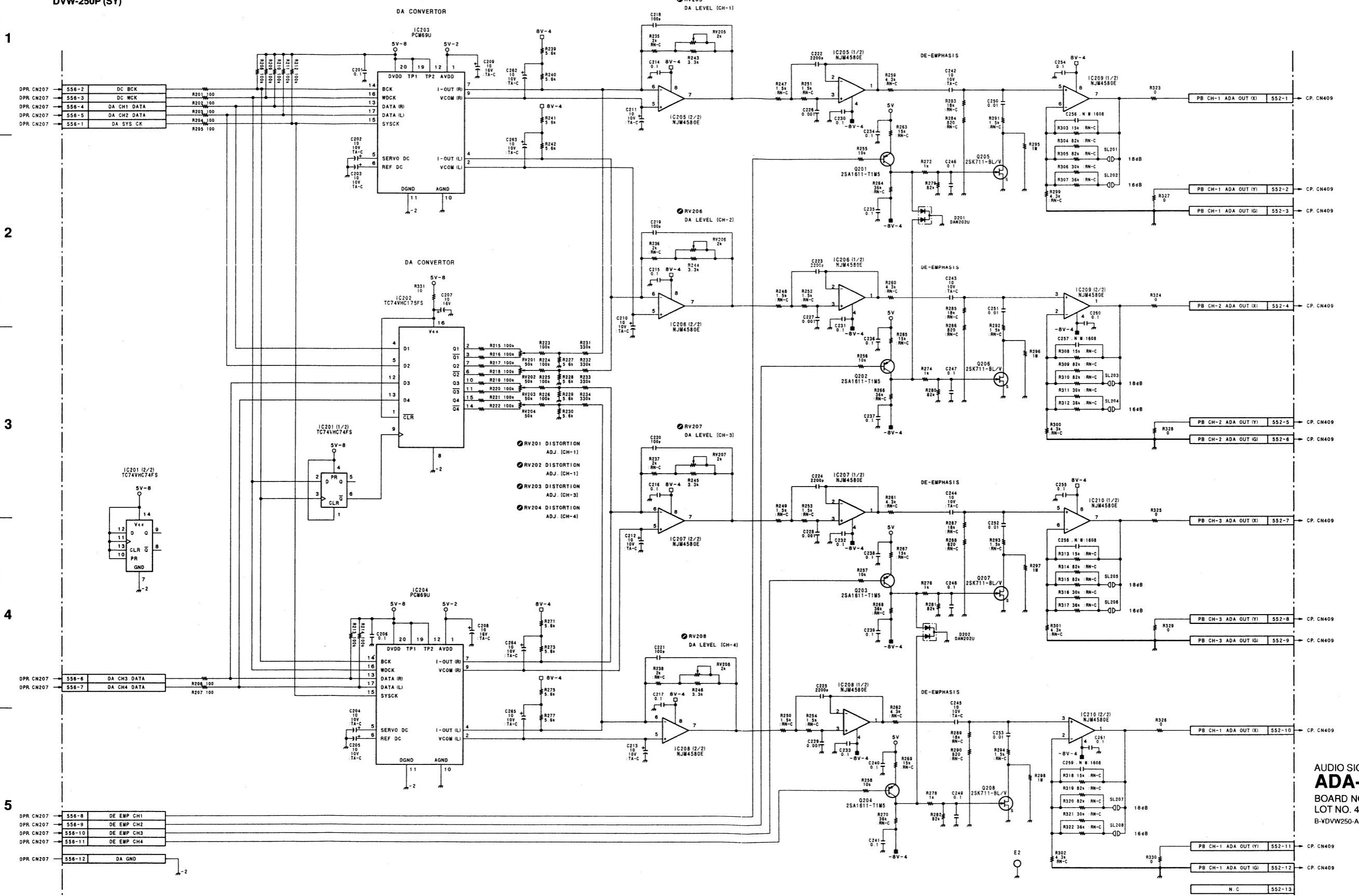
**4**

**5**





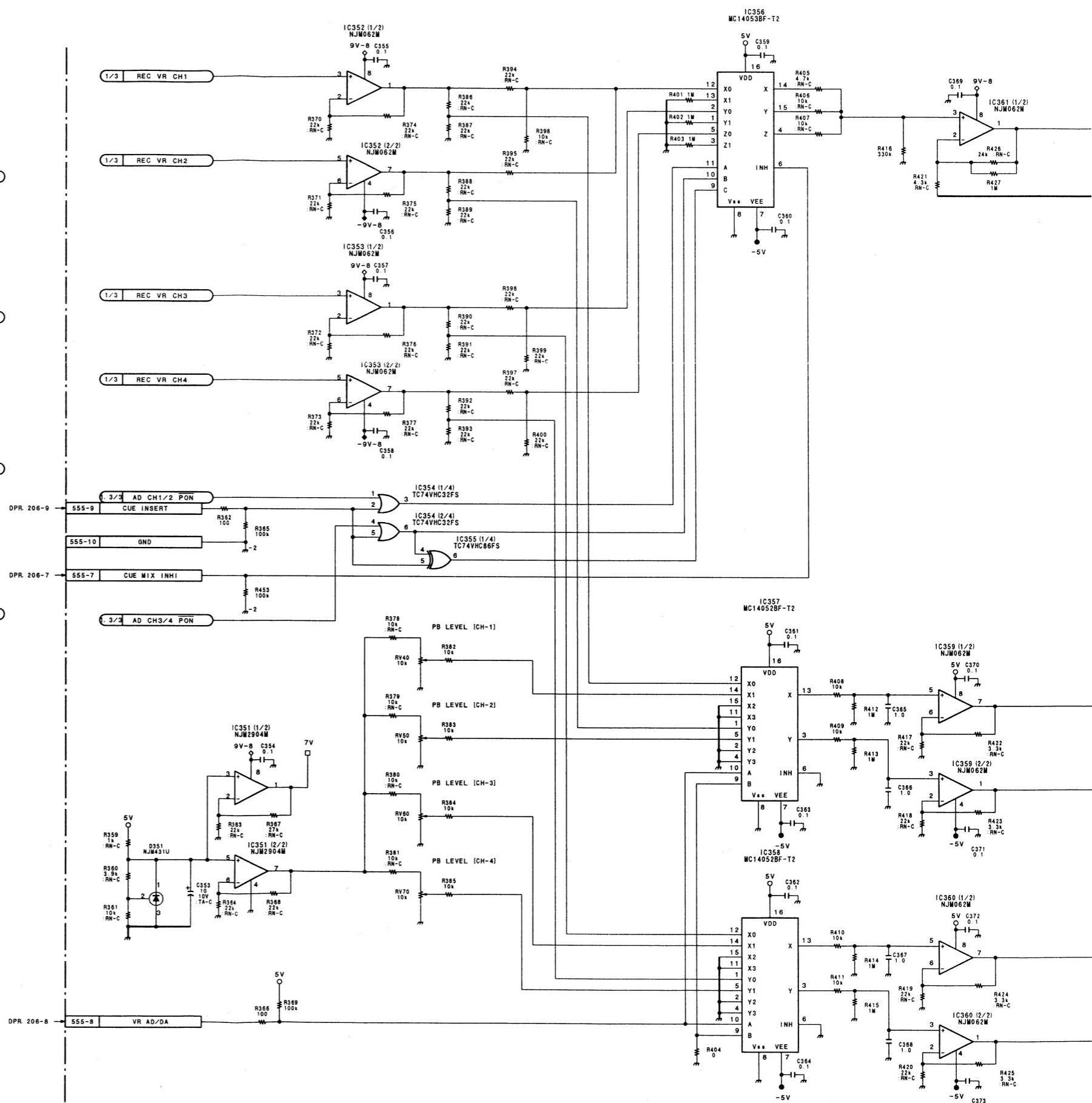
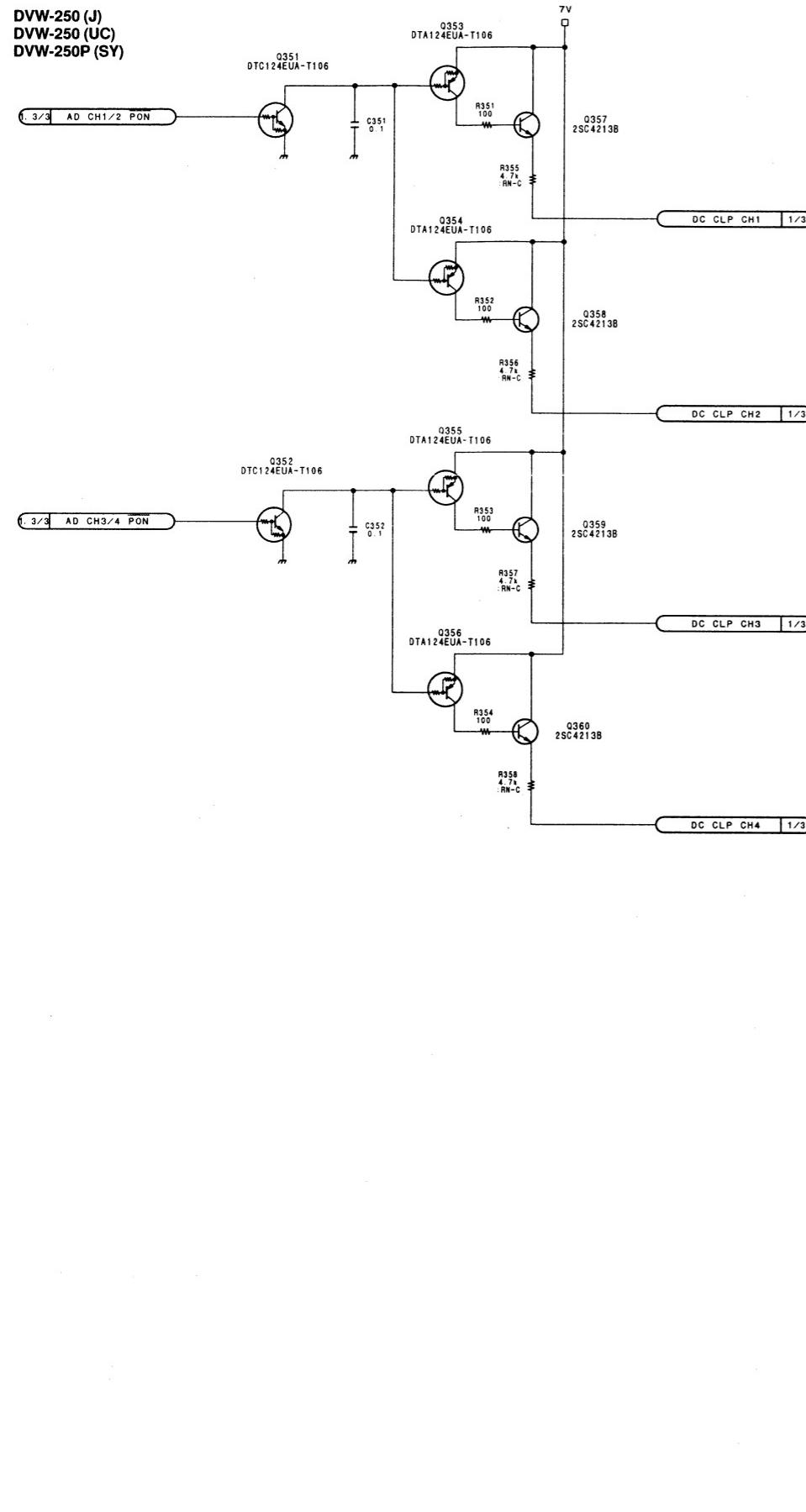
DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

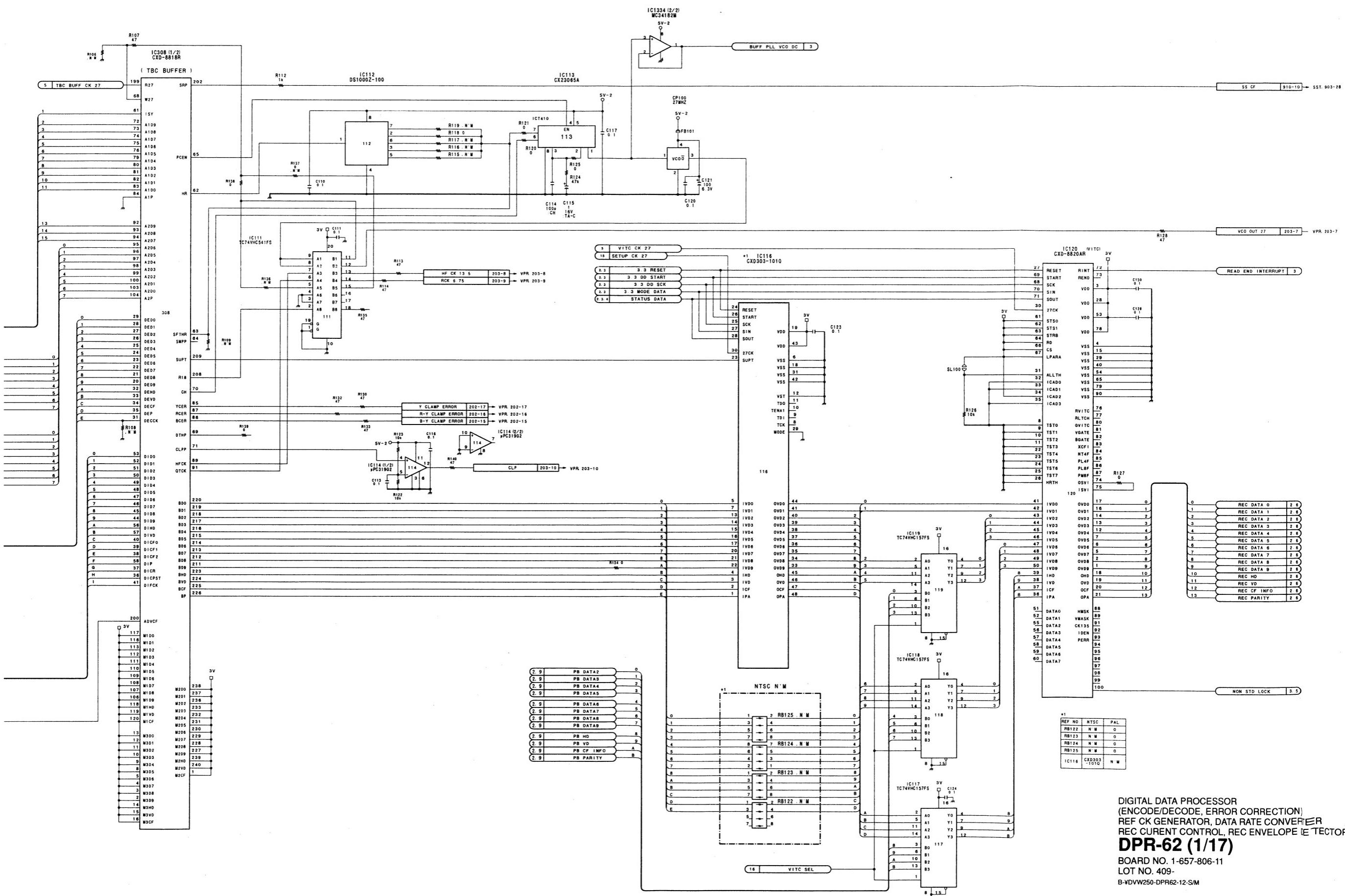


AUDIO SIGNAL PROCESSOR (AD/DA) '  
**ADA-44 (2/3)**  
BOARD NO. 1-657-810-11  
LOT NO. 409-  
B-VDVW250-ADA44-11



**ADA-44 (3/3)      ADA-44 (3/3)**





DIGITAL DATA PROCESSOR  
(ENCODE/DECODE, ERROR CORRECTION)  
REF CK GENERATOR, DATA RATE CONVERTER  
REC CURRENT CONTROL, REC ENVELOPE DETECTOR

**DPR-62 (1/17)**

BOARD NO. 1-657-806-11

LOT NO. 409-

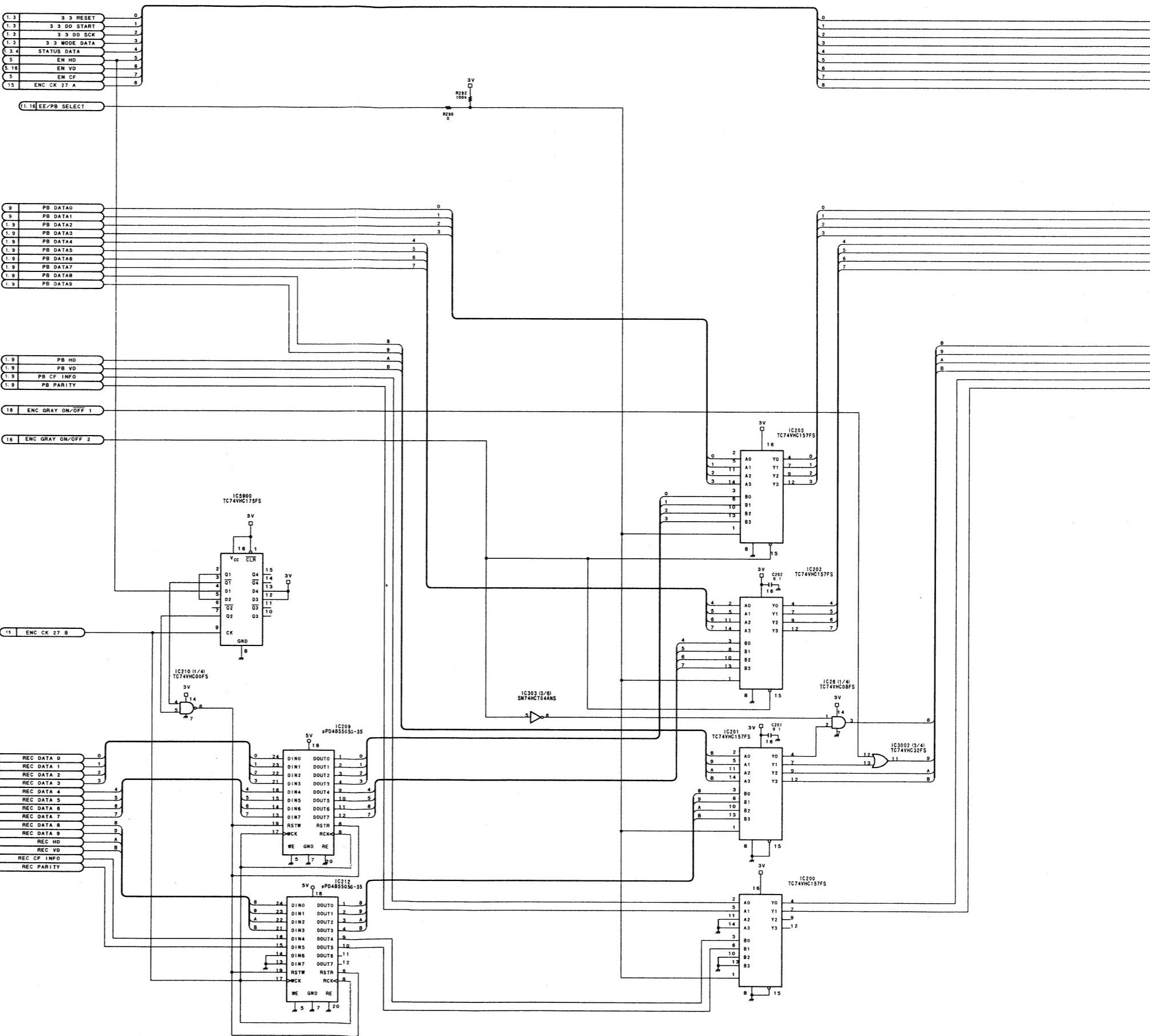
B-YDVW250-DPR62-12-S/M

**DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)**

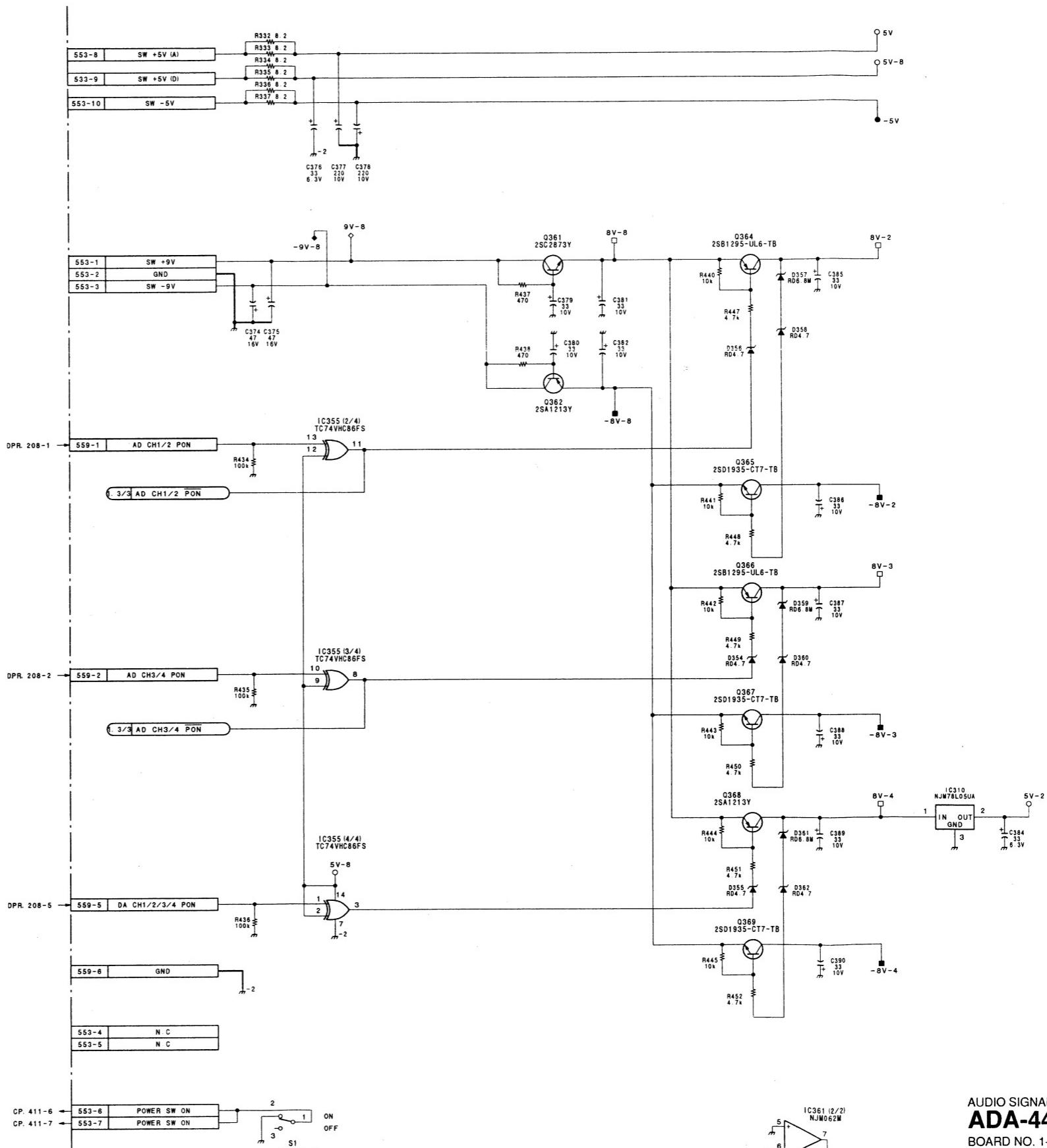
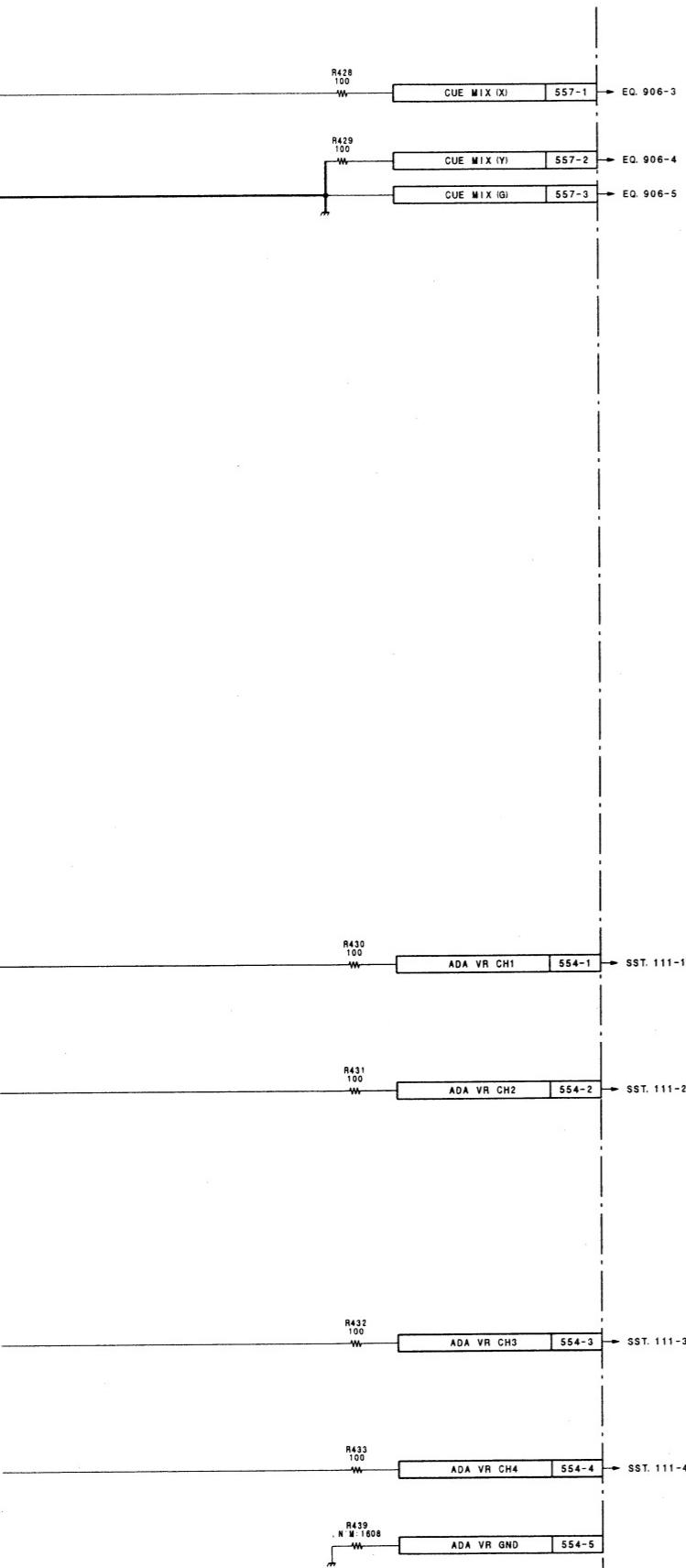
DPR-62 (1-657-806-11)

(From 3-40)

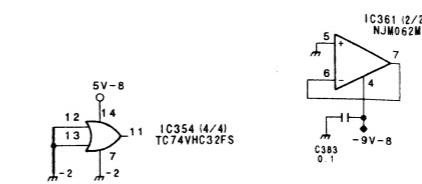
IC1603	*F4	RB118	*G6	RB1003	D8
IC1604	*E4	RB119	*G6	RB1004	*C7
IC1605	F3	RB120	*H6	RB1100	A6
IC2500	*H3	RB121	*H6	RB1101	A6
IC2501	*G4	RB126	*H7	RB1102	A3
IC2502	*H4	RB127	*H7	RB1103	A3
IC3000	F3	RB128	*H7	RB1104	A8
IC3001	*F3	RB129	*G7	RB1105	A8
IC3002	F5	RB130	*G7	RB1200	C9
IC5900	F9	RB131	*G7	RB1201	B9
		RB132	*G7	RB1202	C8
L1	A4	RB200	*G9	RB1203	B8
L2	A4	RB201	*G9	RB1204	E9
L3	A5	RB202	*G9	RB1205	D9
L4	B4	RB203	*G9	RB1206	E8
L5	A5	RB204	*G9	RB1207	D8
L6	A3	RB205	J8	RB2500	H4
L7	B3	RB206	J8	RB2501	H4
L10	B4	RB207	*H9	RB2502	*G4
L12	A5	RB208	*H9	RB2503	*H3
L13	A5	RB209	*H9	RB2504	H3
L1300	*F2	RB210	*H9	RB2505	H3
L1301	*F2	RB300	*E6	RB2506	H3
L1302	*E2	RB301	F6	RB2507	H4
L1303	*D1	RB302	E6	RB2508	H4
L1304	*D1	RB500	F2	RB2509	H3
		RB501	*F2	RB2510	H3
Q1100	*B6	RB505	F2	RB2511	H4
Q1101	*B6	RB506	*F2	RB2512	H4
Q1102	*A6	RB507	F2	RB2513	H4
Q1103	*A8	RB508	F3	RB2514	H4
Q1104	*A6	RB509	H2	RB2515	*G4
Q1300	*F3	RB510	H3	RB2516	H4
Q1301	*F2	RB600	H1	RB2517	H4
Q1302	*F2	RB700	D3	RB2518	H4
Q1303	*F2	RB701	*D5	RB2519	H4
Q1304	*E2	RB702	E5	RB2520	H4
Q1305	*F2	RB703	E5		
Q1306	*E2	RB704	D5	TP200	*F9
Q1307	*E2	RB705	D3	TP201	*F9
Q1308	*E2	RB706	D5	TP202	*F9
Q1309	*D2	RB707	D3	TP203	*F9
Q1310	*E2	RB800	C7	TP204	*F9
Q1311	*B1	RB802	*B6	TP205	*F9
Q1312	*B1	RB804	*B5	TP206	*F9
Q1313	*B1	RB805	*C5	TP207	*F9
		RB806	C6	TP300	*F6
RB1	E7	RB807	*B6	TP700	*D4
RB2	E7	RB808	*C6	TP701	*D4
RB3	E7	RB809	*C6	TP702	C6
RB4	E7	RB810	*D6	TP703	*D4
RB5	E8	RB811	*D6	TP704	*D5
RB6	E8	RB813	*B7	TP705	B6
RB7	E7	RB814	*B7	TP706	*H3
RB8	E7	RB815	*C5	TP1001	*J2
RB9	E7	RB816	*C5	TP1002	*J2
RB10	E7	RB817	*B5	TP1003	*D7
RB11	E8	RB818	C6	TP1004	*D7
RB12	E8	RB819	*B6	TP1005	*D6
RB13	E7	RB820	*B6	TP1006	*D6
RB14	E7	RB821	*C6	TP1100	*A9
RB100	*H7	RB822	*C6	TP1101	*A9
RB101	J6	RB900	*C4	TP1300	*E3
RB102	*H7	RB901	*C5	TP1301	*E1
RB103	*H7	RB902	*C4	TP1302	D2
RB104	J6	RB903	*C4	TP1303	D3
RB105	J6	RB904	*C4	TP1400	*J2
RB106	*H7	RB905	*D3		
RB107	*H7	RB906	*B4		* : Soldering Side
RB108	H6	RB907	*B4		
RB109	*H7	RB908	*B4		
RB110	H6	RB909	*B4		
RB111	H6	RB910	*C4		
RB112	*H7	RB911	*C3		
RB113	*H7	RB912	*C5		
RB114	*H7	RB913	*D5		
RB115	*H7	RB914	*C6		
RB116	*G6	RB1000	*D7		
RB117	*G6	RB1001	D8		



**ADA-44 (3/3) ADA-44 (3/3)**



AUDIO SIGNAL PROCESSOR (AD/DA)  
**ADA-44 (3/3)**  
BOARD NO. 1-657-810-11  
LOT NO. 409-  
B-YDVW250-ADA44-11



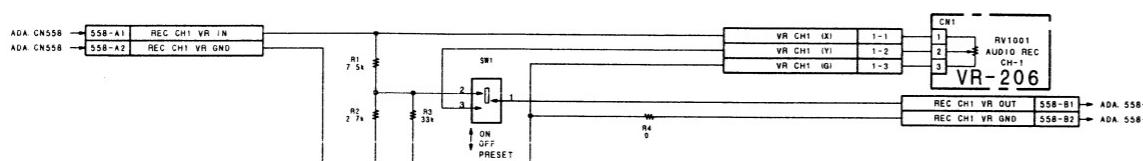
DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

VR-194 (1-657-808-11)

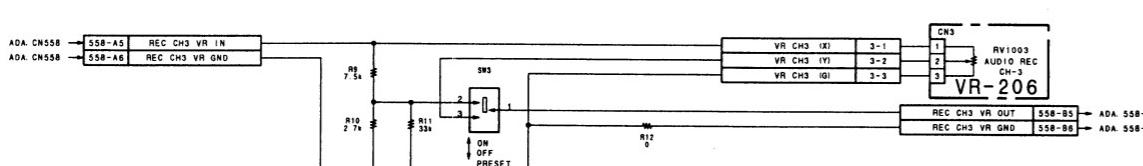
CN1 A2  
CN2 A1  
CN3 C2  
CN4 C1  
CN558 \*C2  
  
SW1 A2  
SW2 A1  
SW3 C2  
SW4 C1

\* : Soldering Side

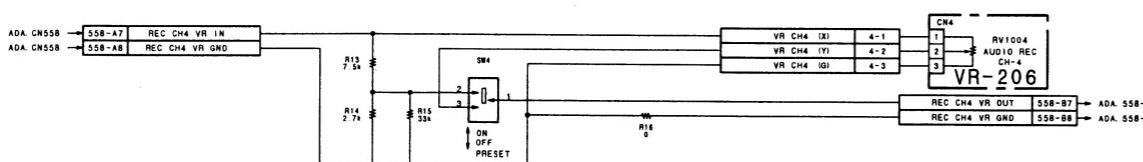
2



3



4

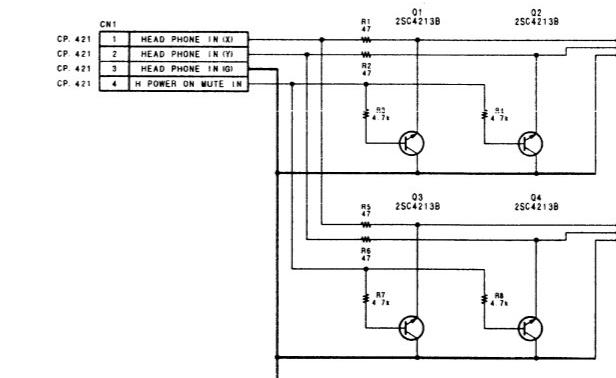


5

ADA CN558 — 558-A7 REC CH4 VR IN	N.C.
ADA CN558 — 558-B9 REC CH4 VR GND	N.C.
ADA CN558 — 558-A10 REC CH4 VR IN	N.C.
ADA CN558 — 558-B10 REC CH4 VR GND	N.C.

DUS-339 (1-638-694-11)

CN432 A1  
  
Q1 A1  
Q2 A1  
Q3 A1  
Q4 A1



### HEAD PHONE CONNECTOR DUS-339

BOARD NO. 1-638-694-13  
LOT NO. 409-  
B-VDW250-DUS339-11

### AUDIO REC LEVEL SELECTOR (PRESET/VARIABLE) VR-194

BOARD NO. 1-657-808-11  
LOT NO. 409-  
B-VDW250-VR194-11



DVV-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

DPR-62 (1-657-806-11)

CN201 \*J2 IC200 \*H9 IC1106 B9

CN202 \*J4 IC201 \*H9 IC1107 \*B9

CN203 \*J6 IC202 \*G9 IC1108 \*A3

CN204 \*J8 IC203 \*G9 IC1109 A8

CN205 D6 IC204 \*G9 IC1111 \*E9

CN206 H2 IC205 G8 IC1112 A8

CN207 H2 IC206 \*H8 IC1113 B8

CN208 H3 IC207 \*H8 IC1114 \*A6

CN211 E3 IC208 J9 IC1115 \*B6

CN212 E5 IC209 \*G8 IC1116 \*A7

CN213 E6 IC210 F9 IC1117 \*B7

CN908 A9 IC211 \*H9 IC1118 \*A7

CN909 A7 IC212 \*H8 IC1119 \*B7

CN910 A5 IC213 \*H9 IC1120 \*A7

CN911 A3 IC214 \*H9 IC1121 B8

IC300 \*G6 IC1122 A9

CP100 H5 IC301 E6 IC1124 A9

CP200 G9 IC302 \*F6 IC1200 C9

CP1100 \*B9 IC303 \*G6 IC1201 C9

CP1300 E1 IC304 H5 IC1202 C8

CP1301 B2 IC305 G5 IC1203 C8

CP1302 B1 IC306 \*G6 IC1204 E9

IC307 \*G5 IC1205 D9

D200 \*H9 IC308 G7 IC1206 E8

D301 \*G5 IC309 \*G7 IC1207 D8

D302 \*G5 IC310 F6 IC1300 \*F1

D303 \*G5 IC311 F7 IC1301 F1

D304 \*F5 IC312 F8 IC1302 E1

D305 \*H5 IC313 \*G7 IC1303 F3

D1001 \*D7 IC314 E6 IC1304 E3

D1100 \*B6 IC316 \*F6 IC1305 E1

D1101 \*C9 IC500 F2 IC1306 D1

D1102 \*E9 IC501 \*G3 IC1307 F2

D1300 \*E1 IC502 G2 IC1308 \*E1

D1301 \*E2 IC503 \*H2 IC1309 F2

D1302 D2 IC600 H2 IC1310 E1

D1303 \*E2 IC601 G2 IC1311 \*E2

D1304 \*D2 IC602 G2 IC1312 F2

D1305 \*C1 IC603 \*H2 IC1313 \*E1

D1306 \*C1 IC604 \*G2 IC1314 E2

D1307 \*B1 IC605 \*H1 IC1315 \*D2

D1308 \*C1 IC606 \*G1 IC1316 D2

D1400 B1 IC700 E4 IC1317 \*D2

IC701 \*E5 IC1318 \*E2

E1100 \*A9 IC702 \*F5 IC1319 \*D2

E1300 D2 IC704 \*E5 IC1320 D2

E1301 \*E3 IC705 \*F5 IC1321 \*C2

E1500 \*J8 IC706 G4 IC1322 \*B2

E1501 H6 IC707 \*G4 IC1323 \*B2

E1502 \*D5 IC708 \*G5 IC1324 \*C2

E1503 H1 IC800 D7 IC1325 \*D2

FB1 \*A9 IC802 \*B5 IC1327 \*C2

FB2 \*A3 IC803 \*B5 IC1328 \*B3

FB101 \*H5 IC807 C5 IC1329 C1

FB201 \*H9 IC808 \*C6 IC1330 B3

FB1301 \*E1 IC809 \*C6 IC1331 \*C2

FB1303 \*B2 IC811 D4 IC1332 B2

FB1304 \*B1 IC812 C4 IC1333 \*D1

IC4 \*E8 IC900 \*C4 IC1334 \*B2

IC20 \*E7 IC901 \*C3 IC1336 C2

IC21 \*E7 IC902 \*B4 IC1337 C2

IC22 \*E7 IC903 \*B3 IC1338 C2

IC25 \*E8 IC904 \*C5 IC1339 \*B2

IC26 D8 IC1000 C7 IC1340 C1

IC103 J7 IC1001 D7 IC1341 \*B1

IC104 J7 IC1002 D8 IC1342 \*B1

IC105 \*F6 IC1003 D7 IC1343 \*B2

IC106 \*G6 IC1004 \*C7 IC1344 \*A2

IC107 \*H6 IC1005 B8 IC1345 A3

IC108 \*H6 IC1006 C7 IC1346 A2

IC111 \*H7 IC1007 \*C7 IC1348 A2

IC112 \*H5 IC1008 C7 IC1349 A1

IC113 H5 IC1009 B7 IC1600 \*F3

IC114 \*H8 IC1011 C8 IC1601 \*E3

IC116 \*F7 IC1013 C7 IC1602 \*F3

IC117 \*F8 IC1014 B8

IC118 \*F8 IC1103 A9

IC119 \*F8 IC1104 B9

IC120 \*F8 IC1105 \*C9

\* : Soldering Side

(Continued to 3-42)

B

C

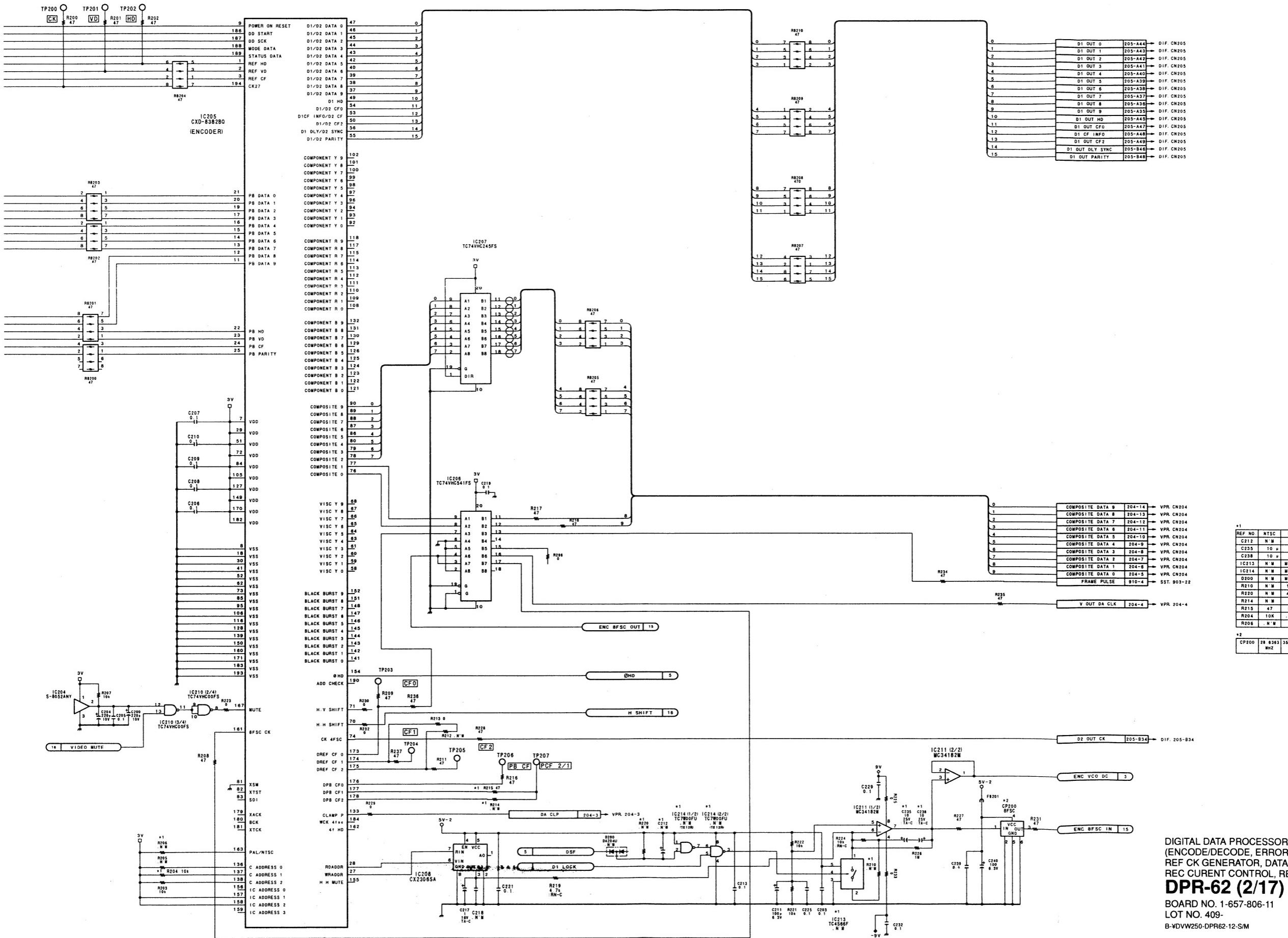
D

E

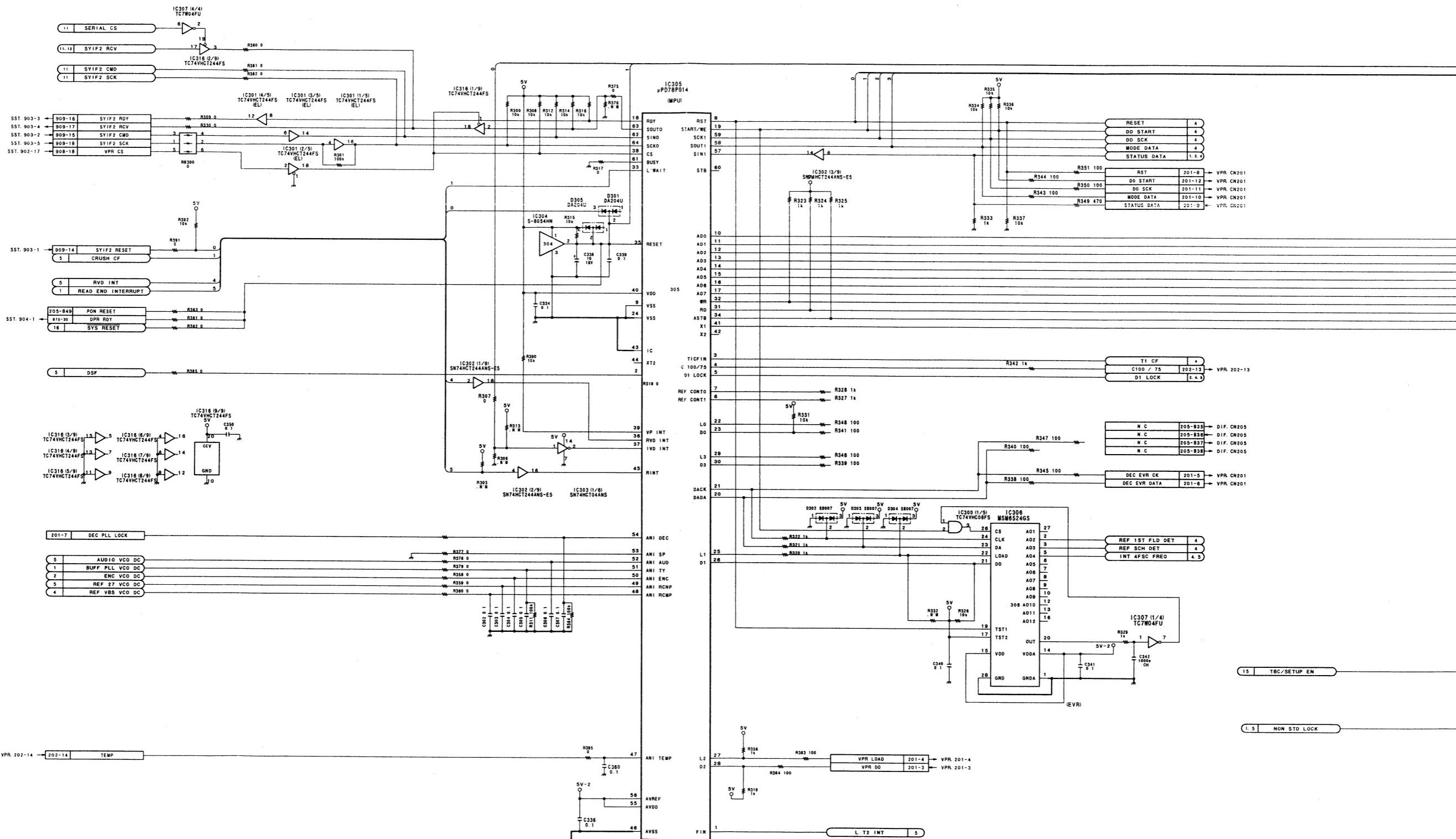
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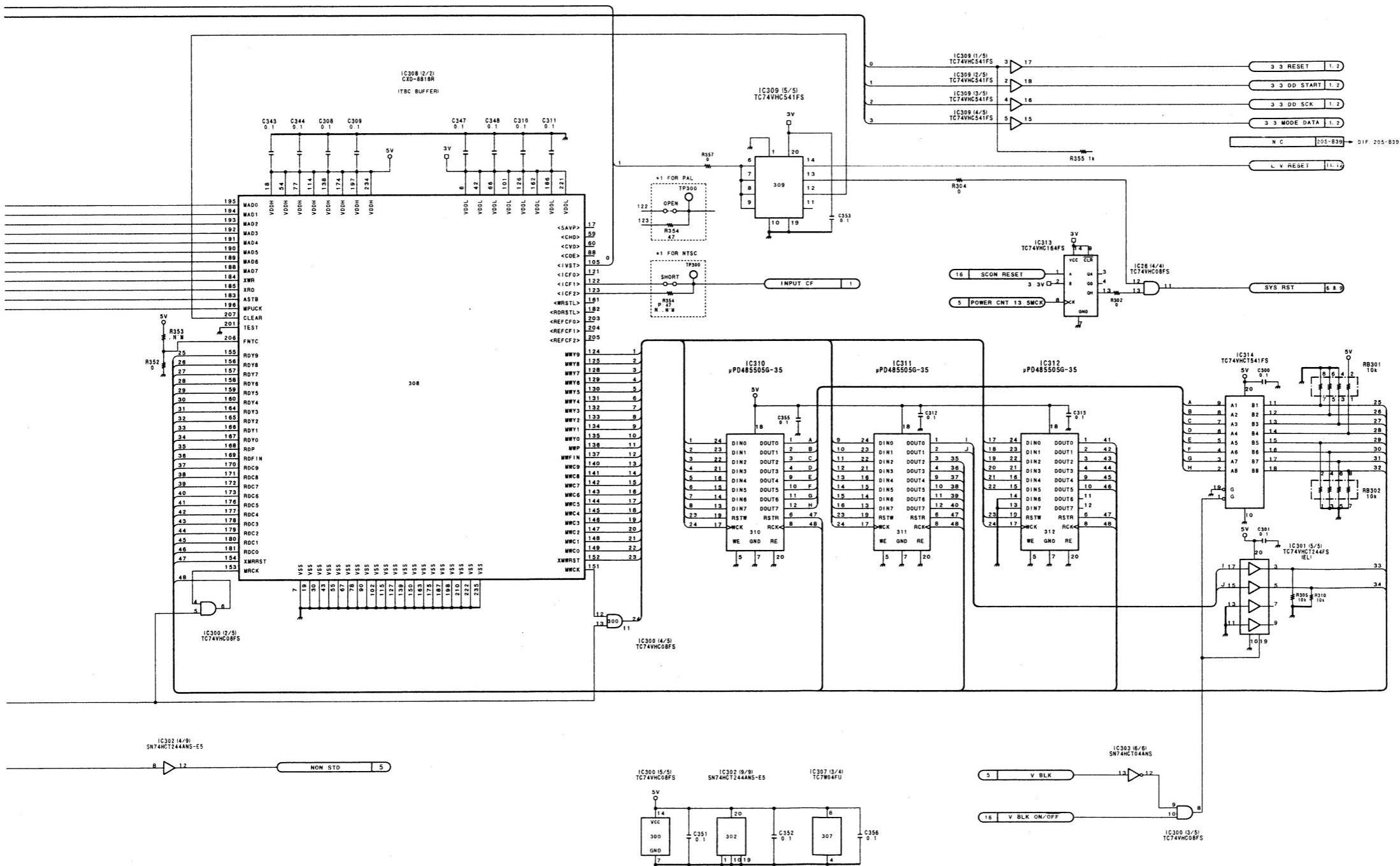
G

H



**DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)**

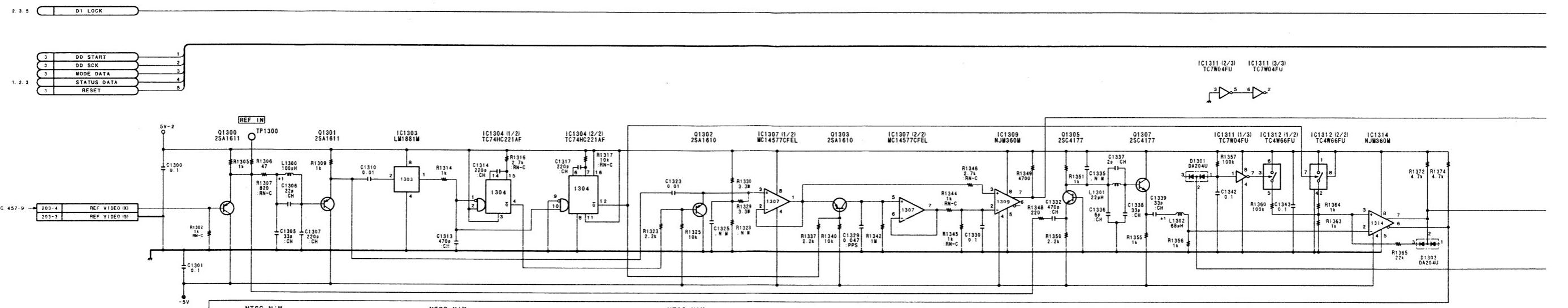


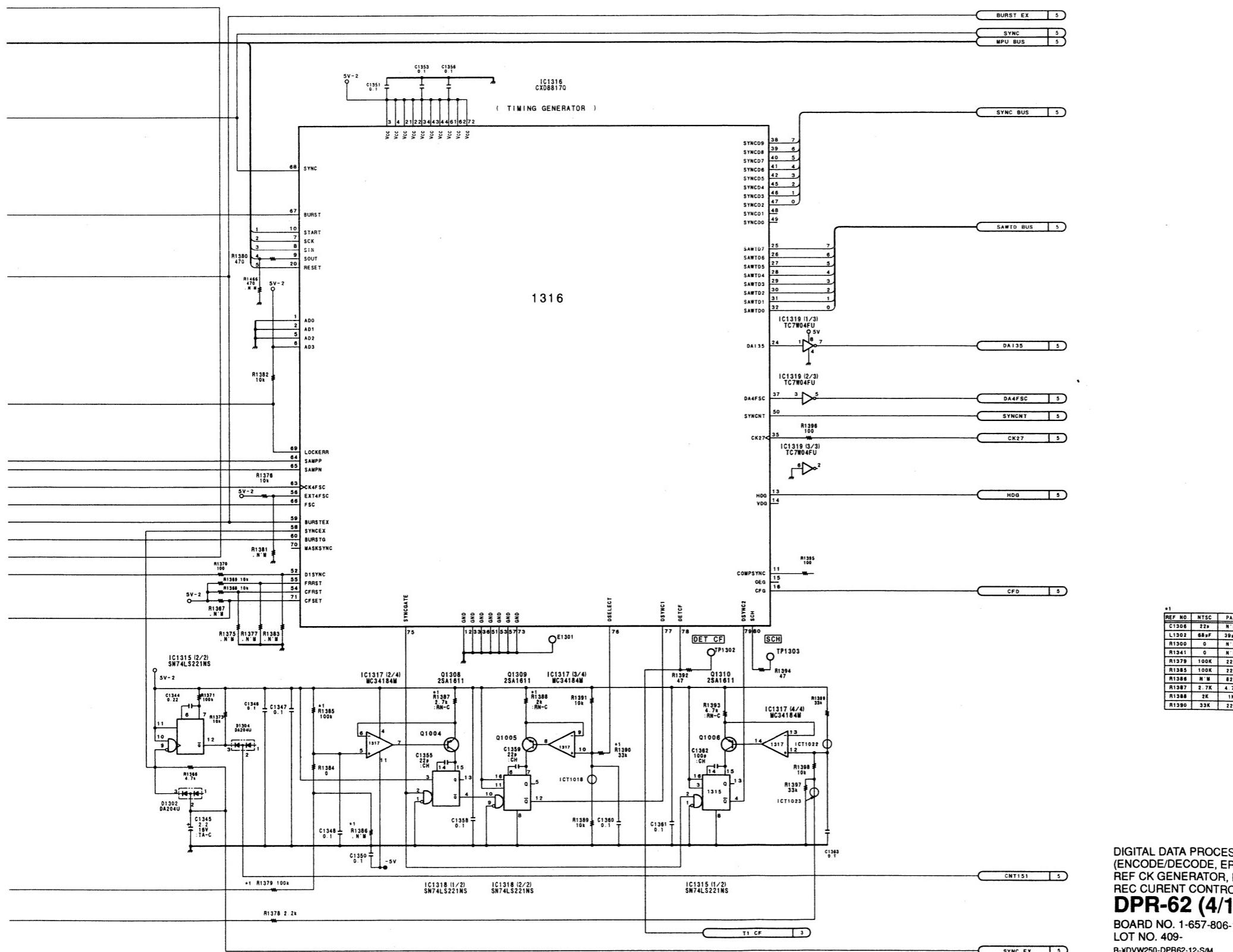


DIGITAL DATA PROCESSOR  
(ENCODE/DECODE, ERROR CORRECTION)  
REF CK GENERATOR, DATA RATE CONVERTER  
REC CURRENT CONTROL, REC ENVELOPE DETECTOR  
**DPR-62 (3/17)**  
BOARD NO. 1-657-806-11  
LOT NO. 409  
B-DVW250-DPR62-12-S/M

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

1





REF. NO.	NTSC	PAL
R1308	33K	
R1302	884F	39H
R1300	0	N.W.
R1241	0	N.W.
R1279	100K	22K
R1285	100K	22K
R1286	N.W.	82K
R1287	2.7K	4.7K
R1288	2K	1K
R1390	33K	22K

DIGITAL DATA PROCESSOR  
(ENCODE/DECODE, ERROR CORRECTION)  
REF CK GENERATOR, DATA RATE CONVERTER  
REC CURRENT CONTROL, REC ENVELOPE DETECTOR

**DPR-62 (4/17)**

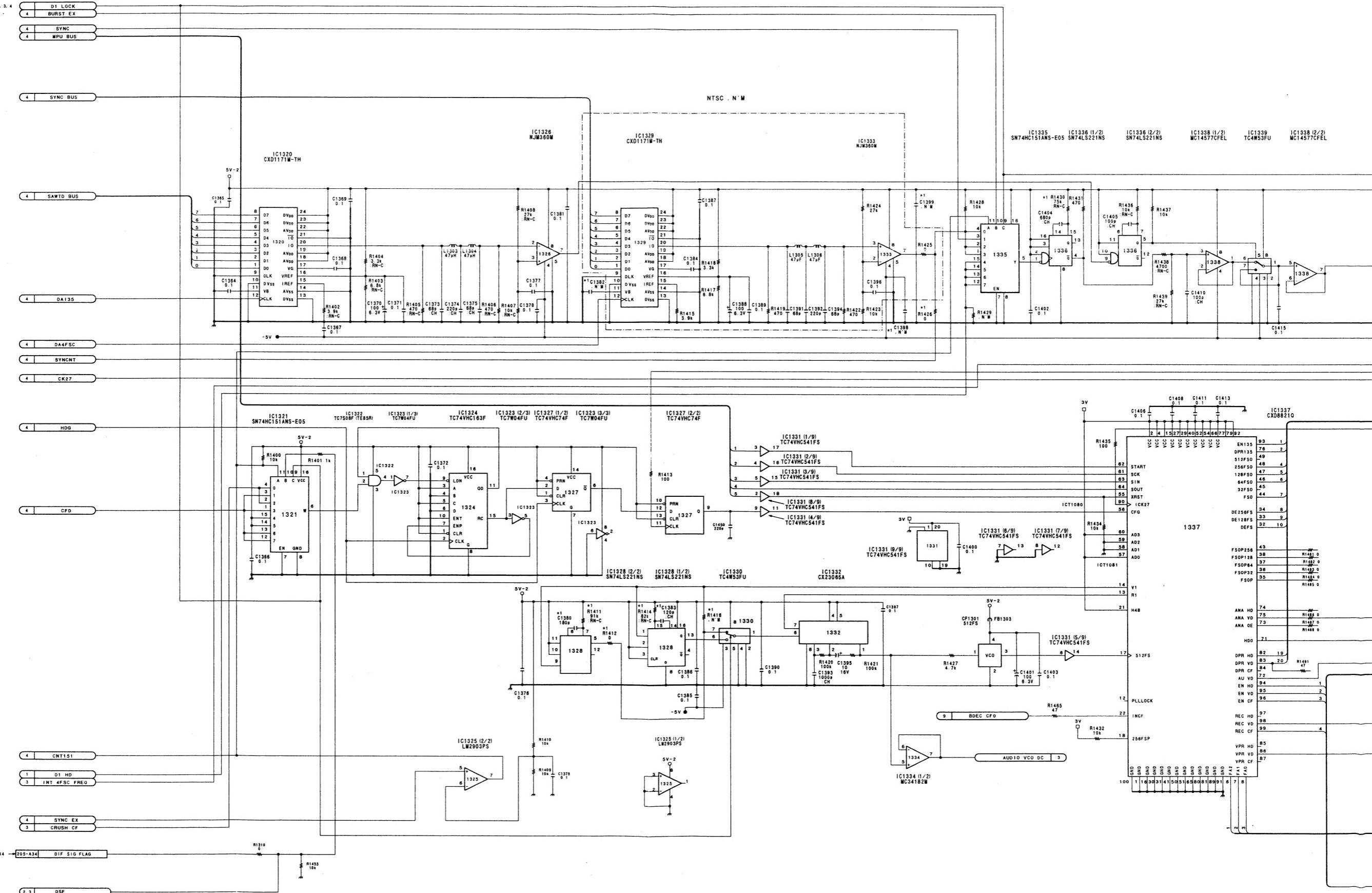
BOARD NO. 1-657-806-11

LOT NO. 409-

B-YDVW250-DPR62-12-S/M

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

1



A

B

C

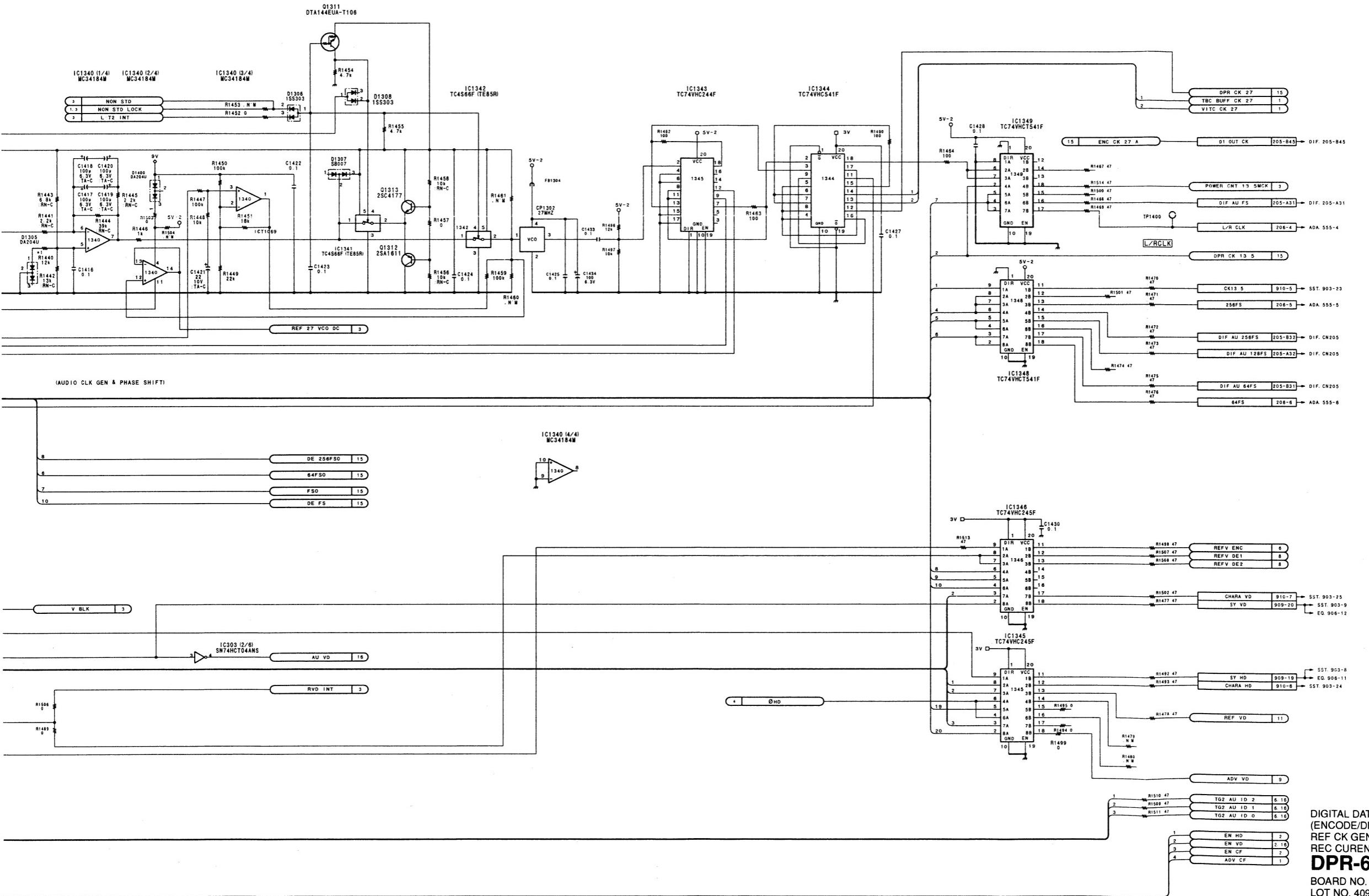
D

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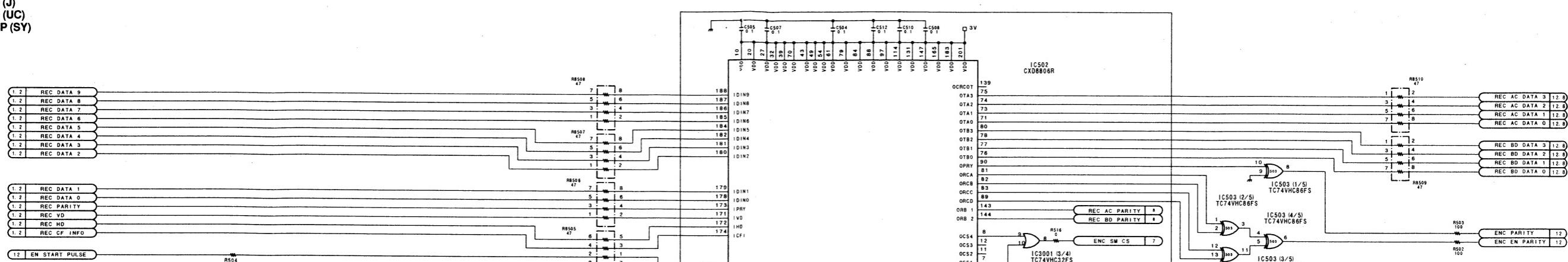


DIGITAL DATA PROCESSOR  
(ENCODE/DECODE, ERROR CORRECTION)  
REF CK GENERATOR, DATA RATE CONVERTER  
REC CURRENT CONTROL, REC ENVELOPE DETECTO  
**DPR-62 (5/17)**

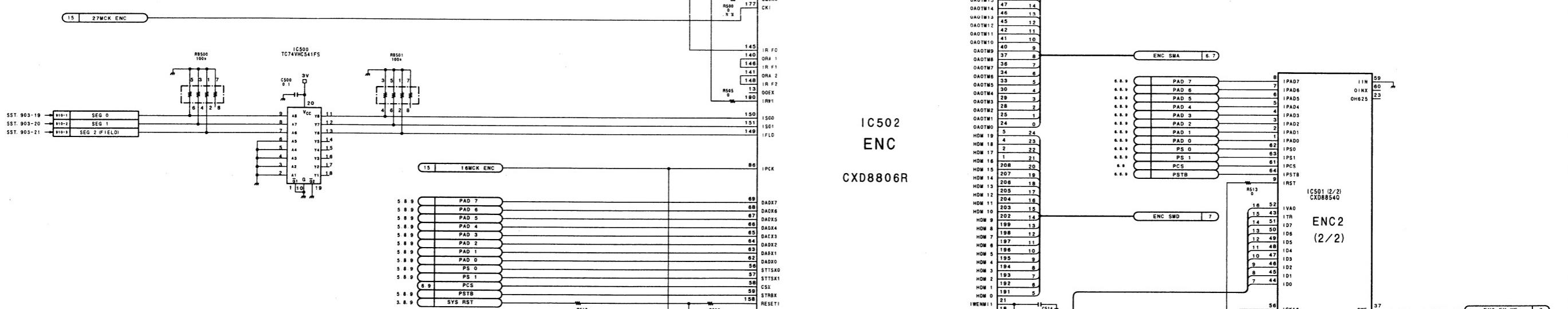
BOARD NO. 1-657-806-11  
LOT NO. 409-  
B-YDVW250-DPR62-12-S/M

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

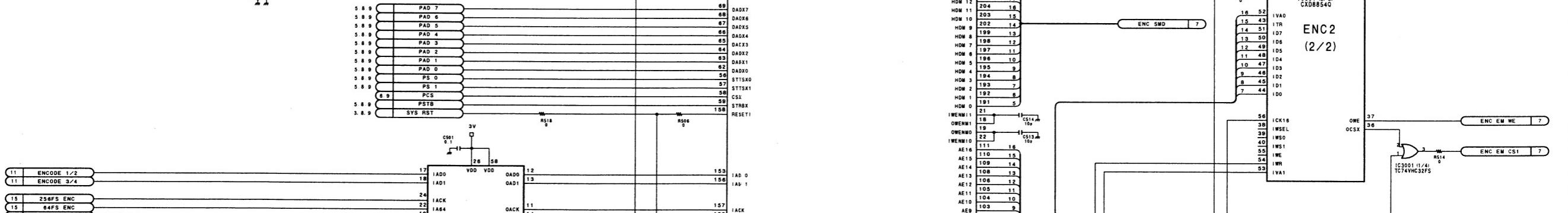
1



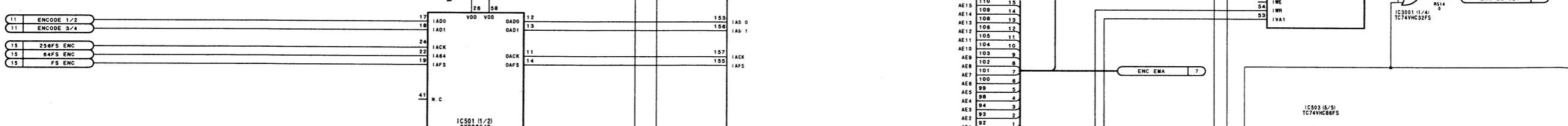
2



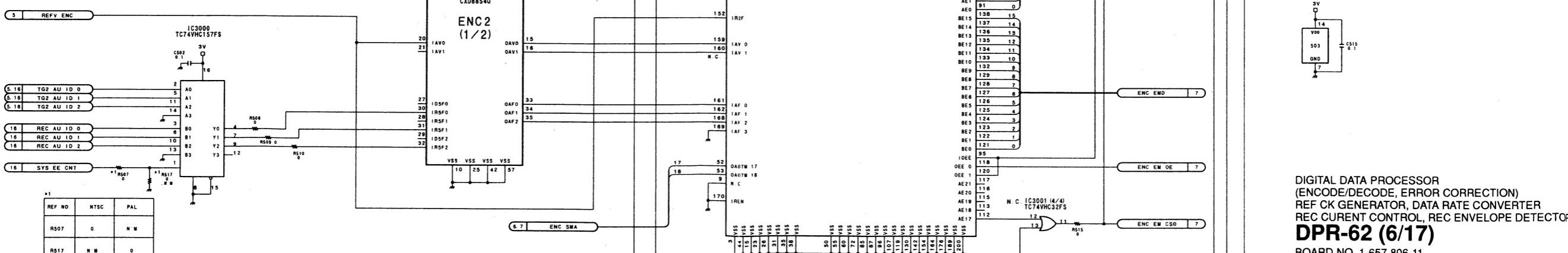
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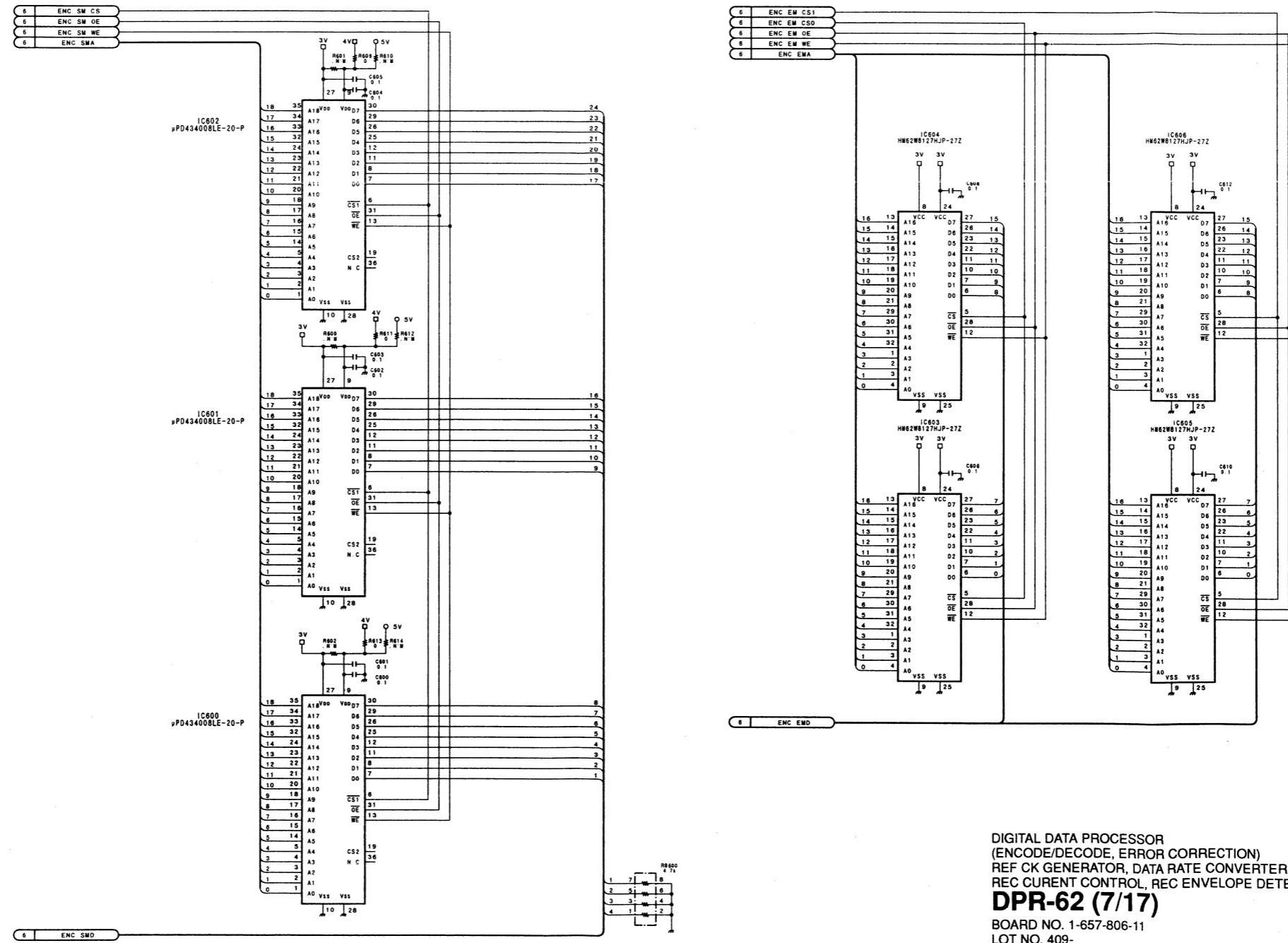
4



5



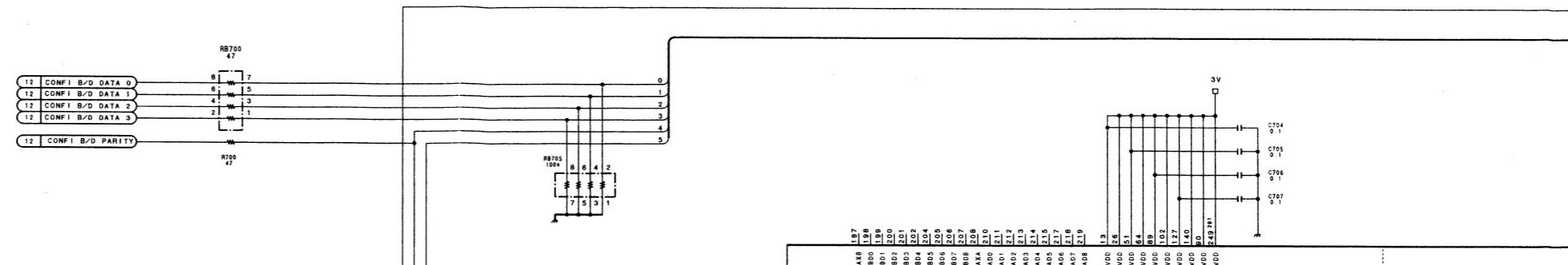
DIGITAL DATA PROCESSOR  
(ENCODE/DECODE, ERROR CORRECTION)  
REF CK GENERATOR, DATA RATE CONVERTER  
REC CURRENT CONTROL, REC ENVELOPE DETECTOR  
**DPR-62 (6/17)**  
BOARD NO. 1-657-806-11  
LOT NO. 409-  
B-VDW250-DPR62-12-SM

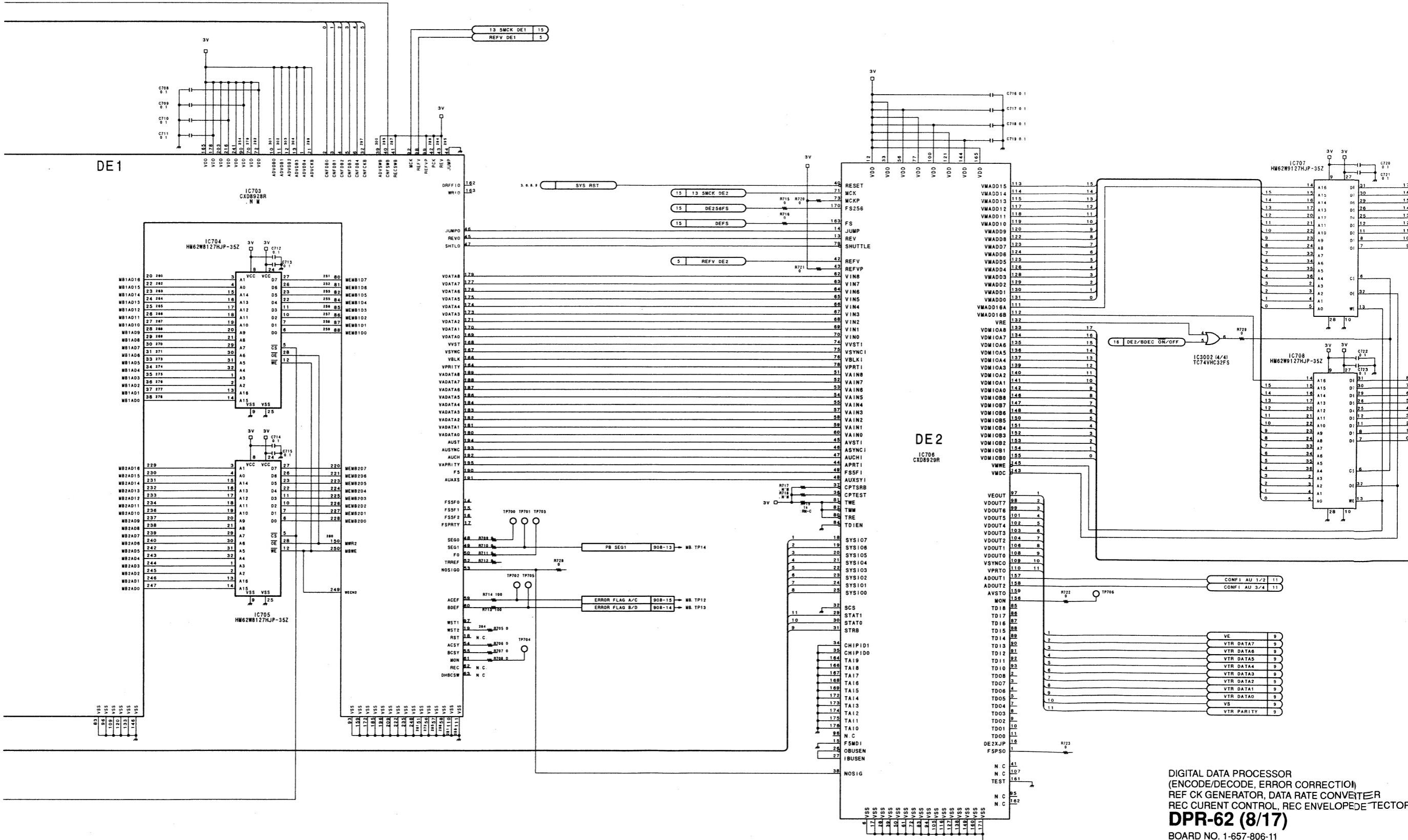


DIGITAL DATA PROCESSOR  
(ENCODE/DECODE, ERROR CORRECTION)  
REF CK GENERATOR, DATA RATE CONVERTER  
REC CURRENT CONTROL, REC ENVELOPE DETECTOR  
**DPR-62 (7/17)**  
BOARD NO. 1-657-806-11  
LOT NO. 409-  
B-YDVW250-DPR62-12-S/M

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

1



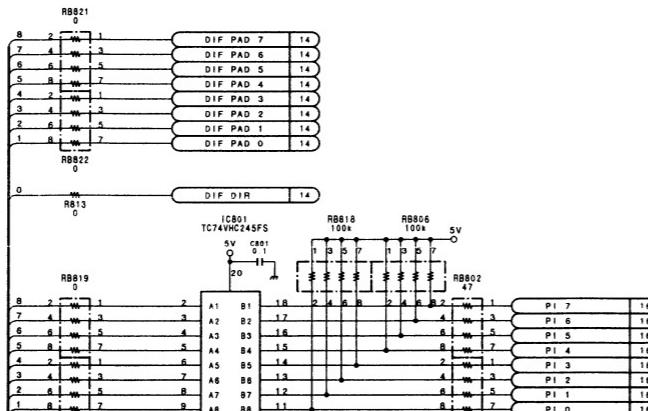


DIGITAL DATA PROCESSOR  
(ENCODE/DECODE, ERROR CORRECTION)  
REF CK GENERATOR, DATA RATE CONVERTER  
REC CURRENT CONTROL, REC ENVELOPEDE TECTOR  
**DPR-62 (8/17)**

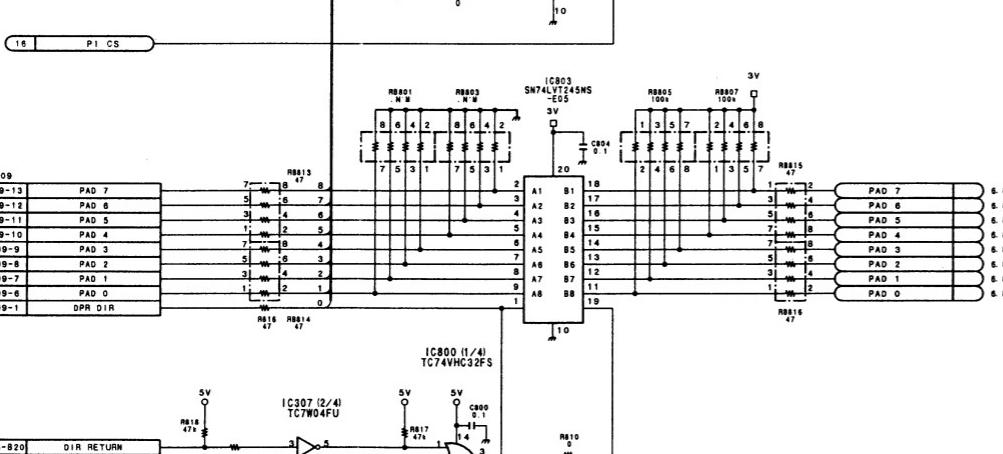
BOARD NO. 1-657-806-11  
LOT NO. 409-  
B-YDVW250-DPR62-12-S/M

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

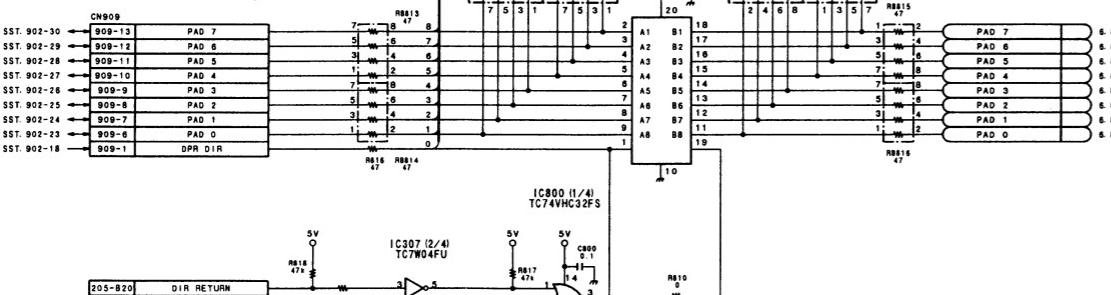
1



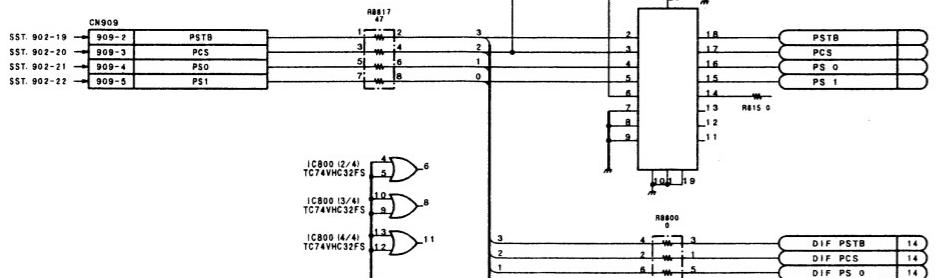
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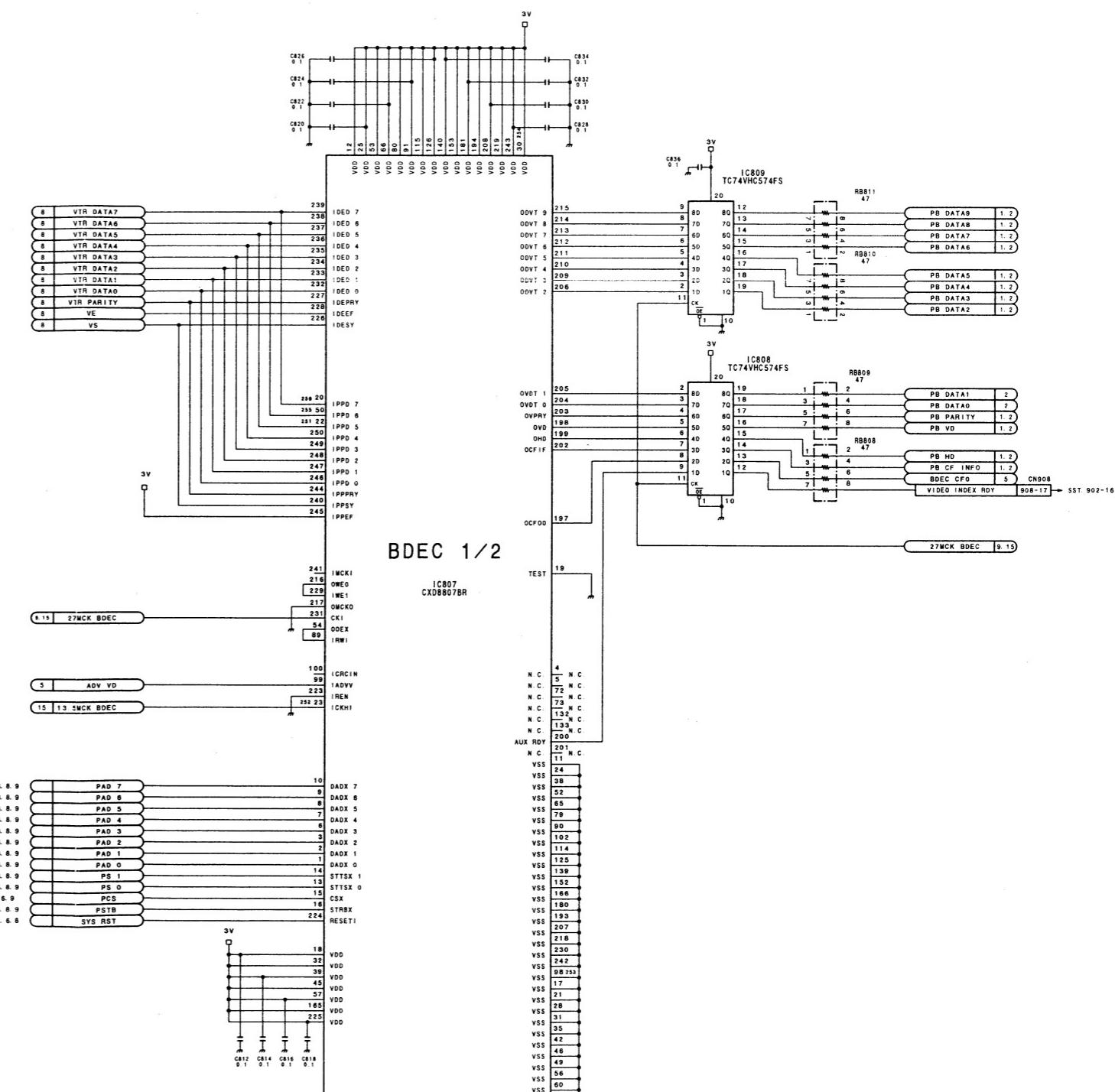
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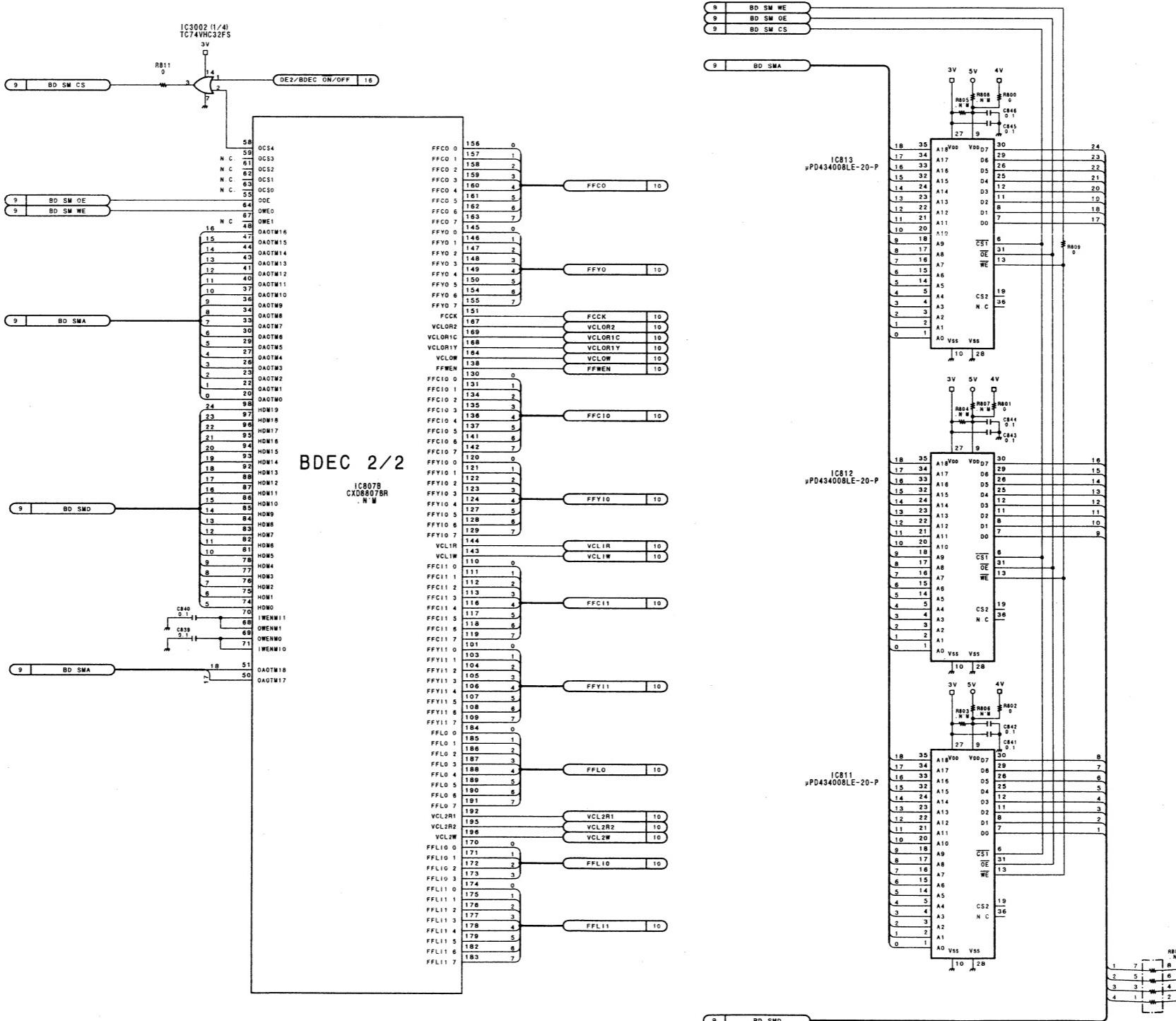


4



5

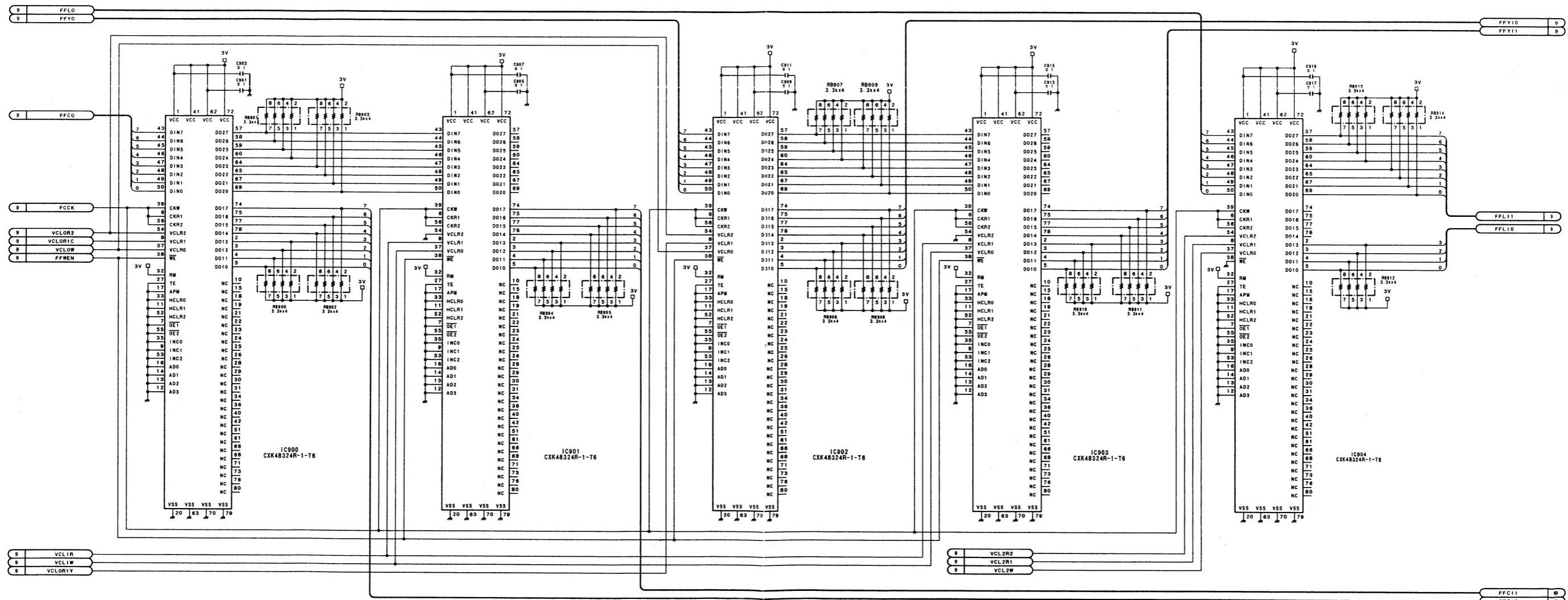




DIGITAL DATA PROCESSOR  
(ENCODE/DECODE, ERROR CORRECTION)  
REF CK GENERATOR, DATA RATE CONVERTER  
REC CURRENT CONTROL, REC ENVELOPE DETECTOR  
**DPR-62 (9/17)**  
BOARD NO. 1-657-806-11  
LOT NO. 409-  
B-VDVW250-DPR62-12-S/M

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

1



3

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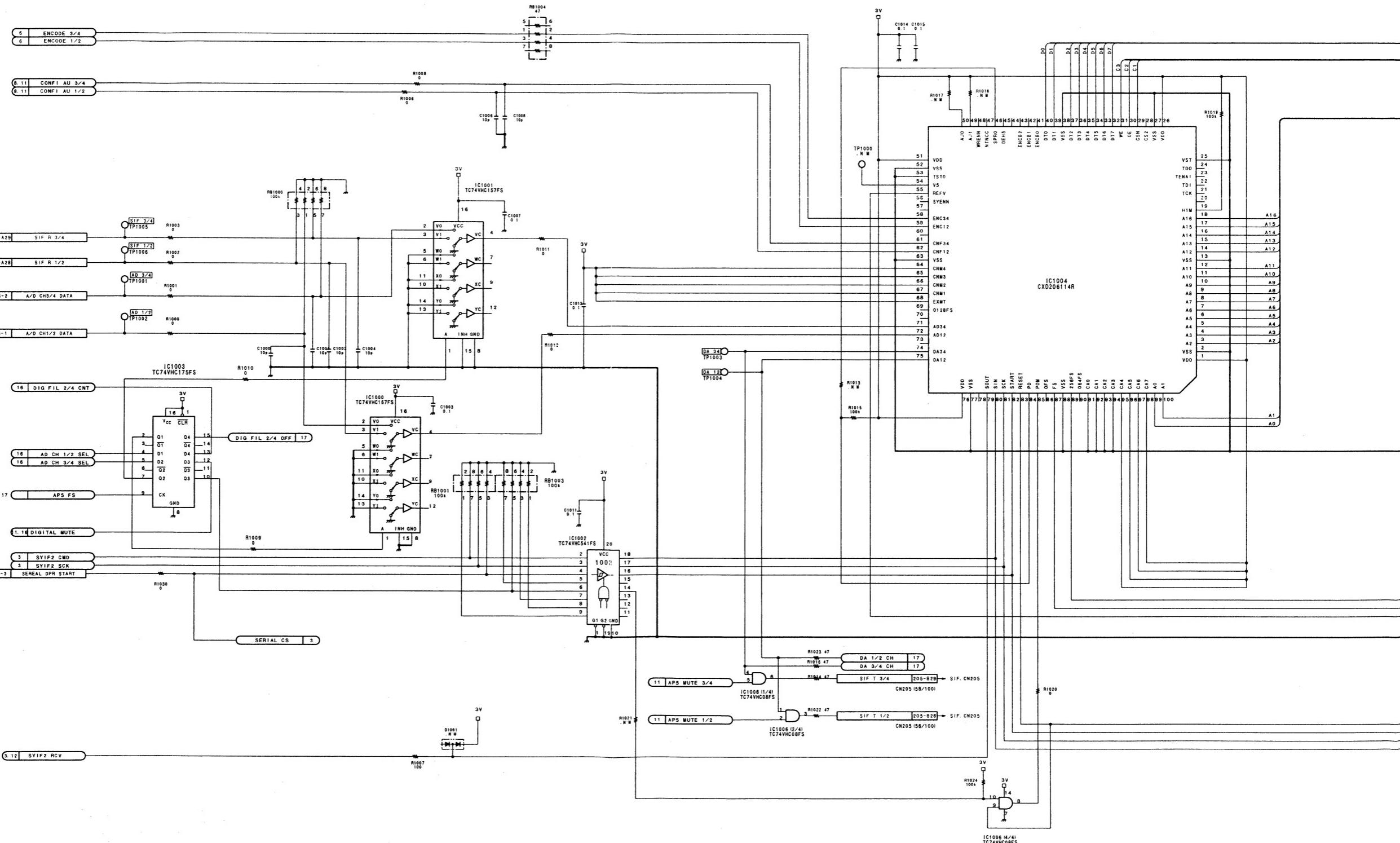
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(ENCODE/DECODE, ERROR CORRECTION)  
REF CK GENERATOR, DATA RATE CONVERTER  
REC CURRENT CONTROL, REC ENVELOPE DETECTOR

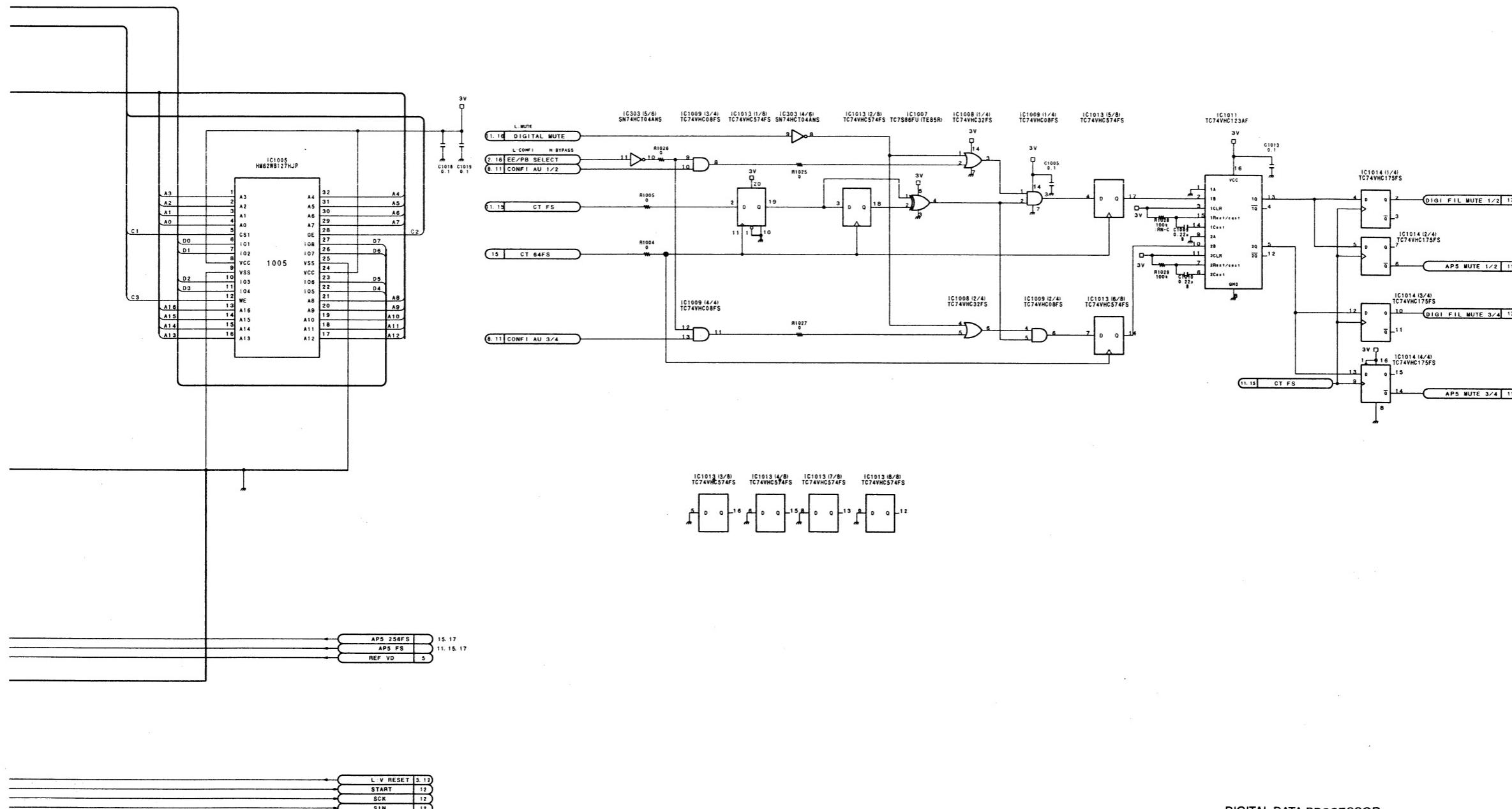
**DPR-62 (10/17)**

BOARD NO. 1-657-806-11  
LOT NO. 409-  
B-VDW250-DPR62-12-S/M



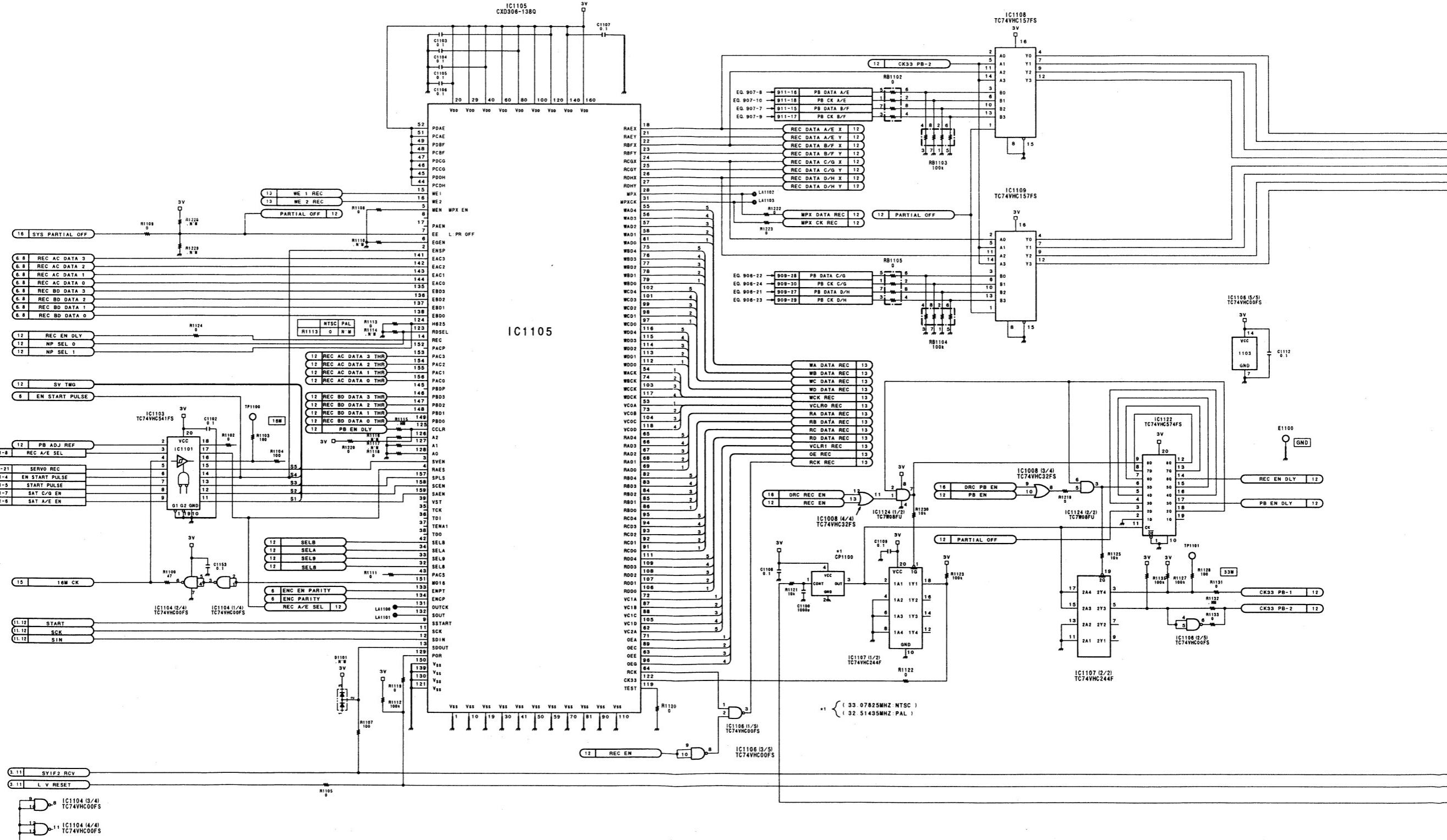
**DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)**

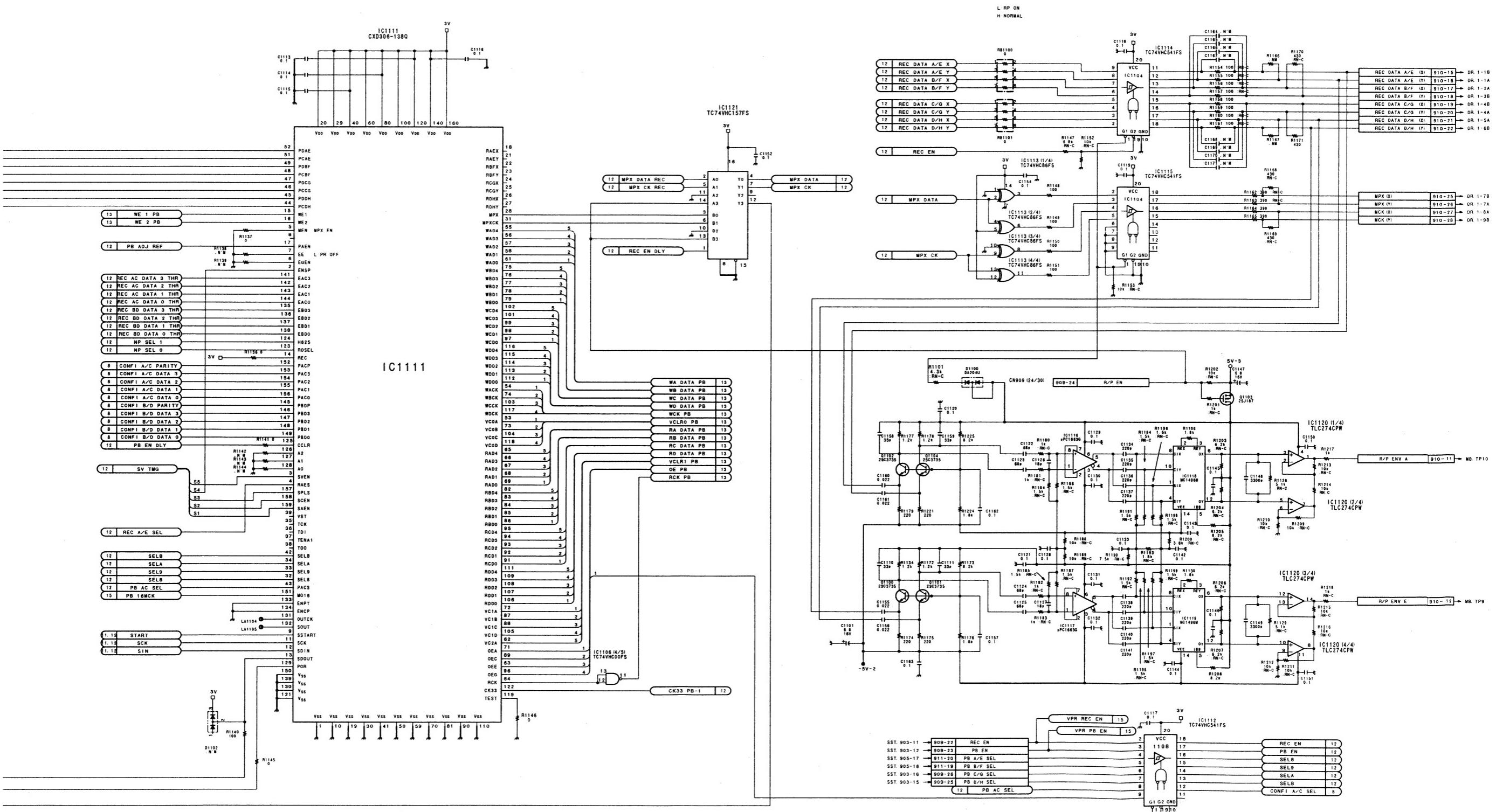




DIGITAL DATA PROCESSOR  
(ENCODE/DECODE, ERROR CORRECTION)  
REF CK GENERATOR, DATA RATE CONVERTER  
REC CURRENT CONTROL, REC ENVELOPE DETECTOR  
**DPR-62 (11/17)**  
BOARD NO. 1-657-806-11  
LOT NO. 409-  
B-VDW250-DPR62-12-S/M

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)



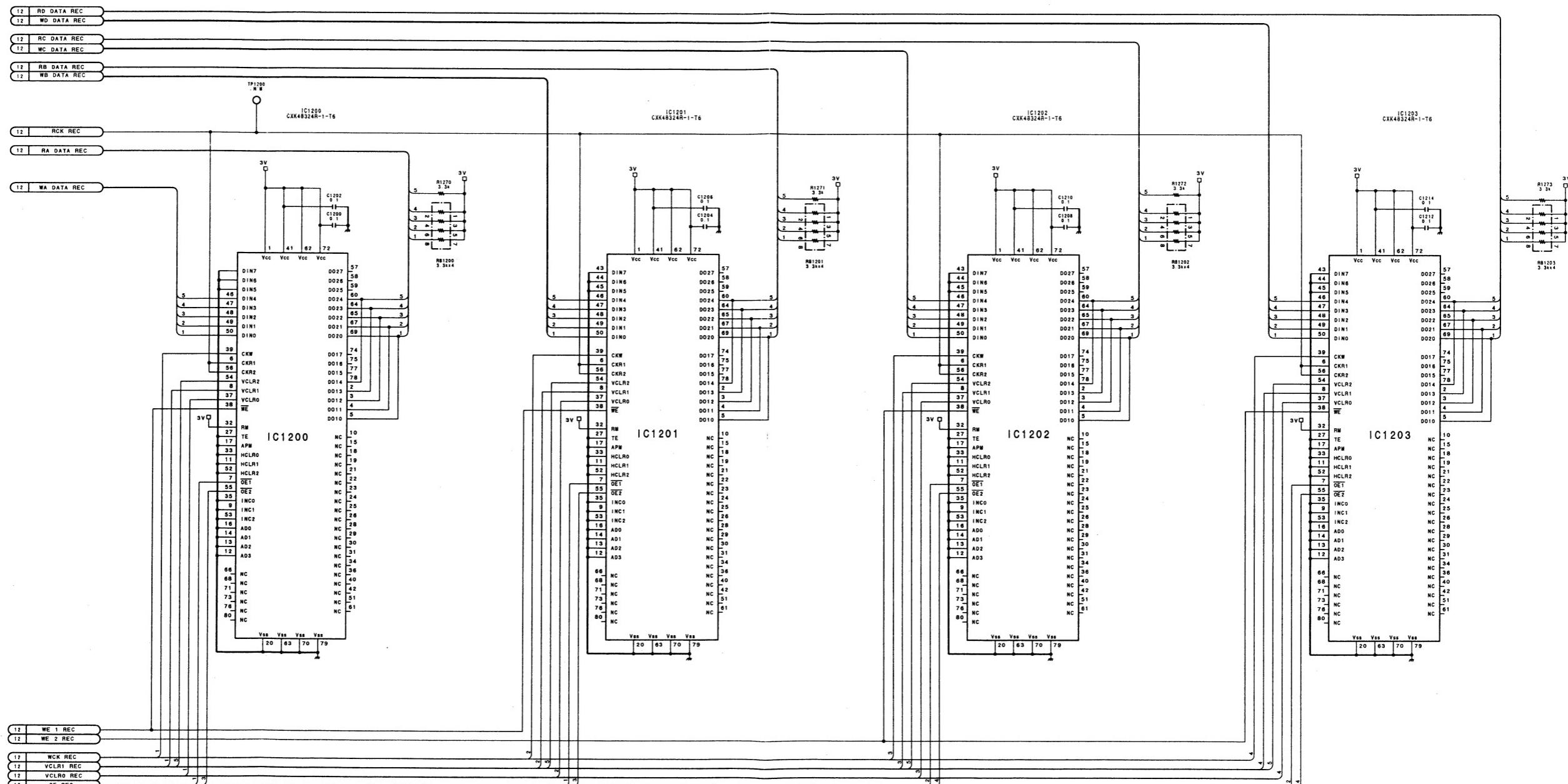


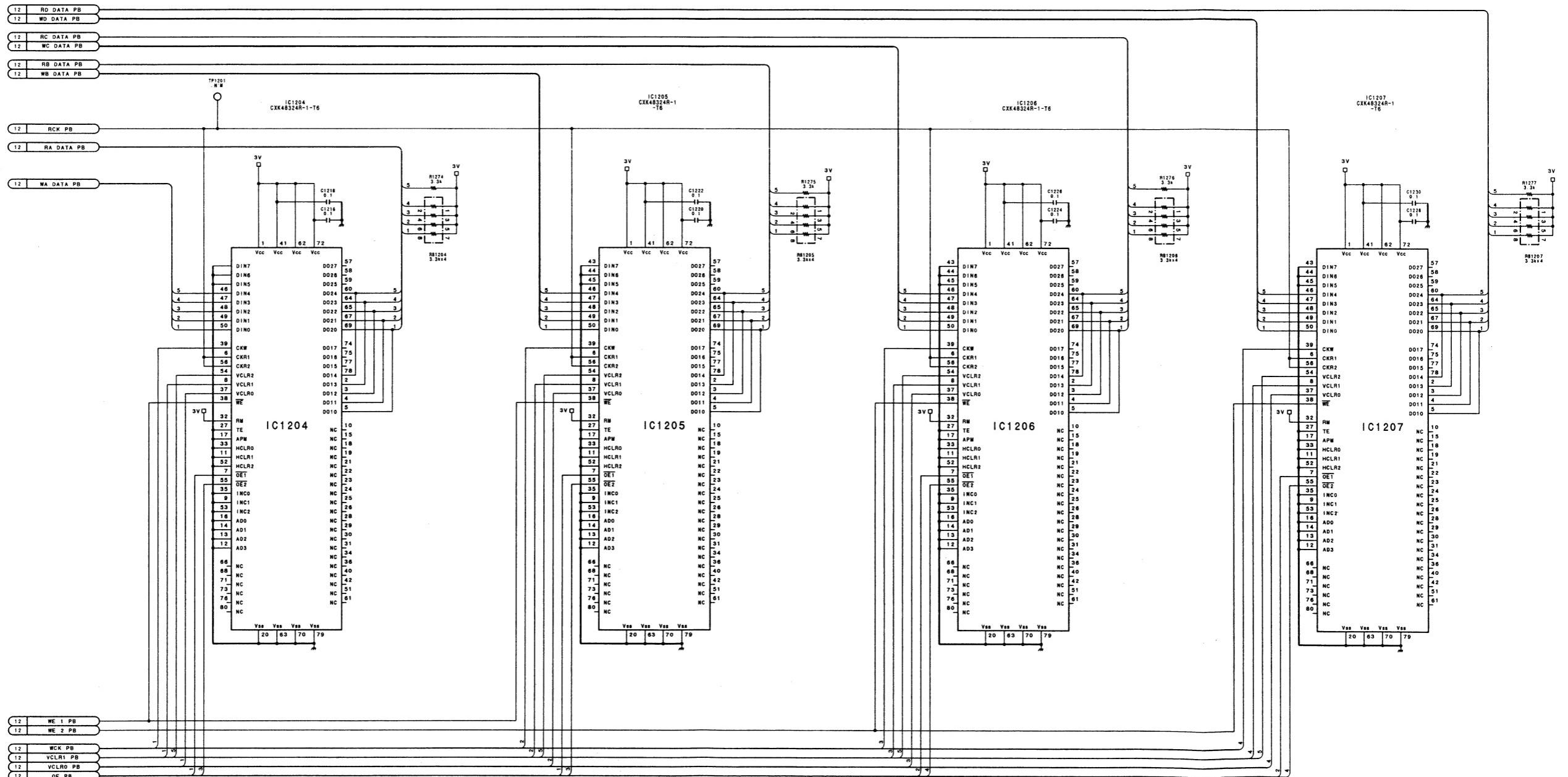
DIGITAL DATA PROCESSOR  
(ENCODE/DECODE, ERROR CORRECTION)  
REF CK GENERATOR, DATA RATE CONVERTER  
REC CURRENT CONTROL, REC ENVELOPE DETECTOR  
**DRP 62 (12/17)**

**DPR-62 (12/1)**  
BOARD NO. 1-657-806-11  
LOT NO. 409-

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

1

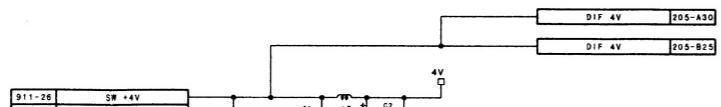




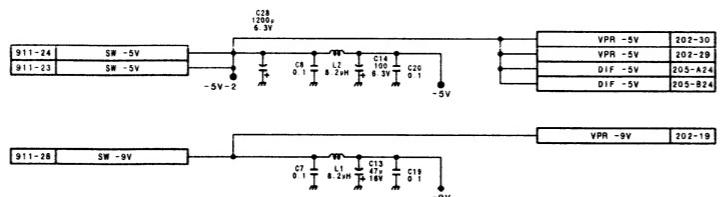
DIGITAL DATA PROCESSOR  
(ENCODE/DECODE, ERROR CORRECTION)  
REF CK GENERATOR, DATA RATE CONVERTER  
REC CURRENT CONTROL, REC ENVELOPE DETECTOR  
**DPR-62 (13/17)**  
BOARD NO. 1-657-806-11  
LOT NO. 409-  
B-DVW250-DPR62-12-S/M

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

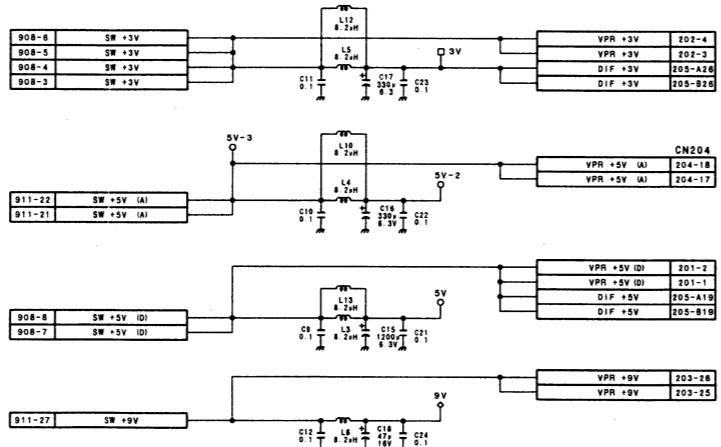
1



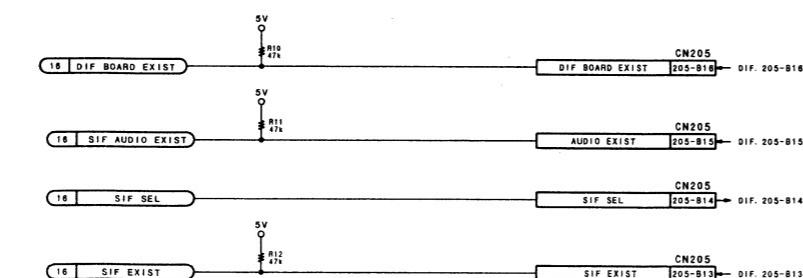
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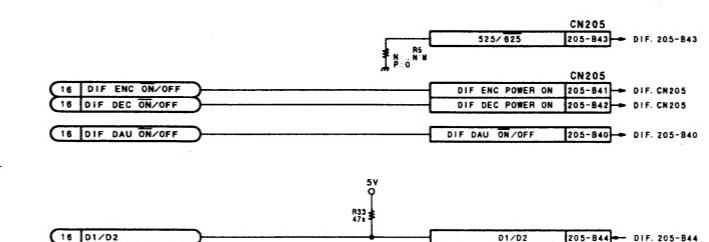
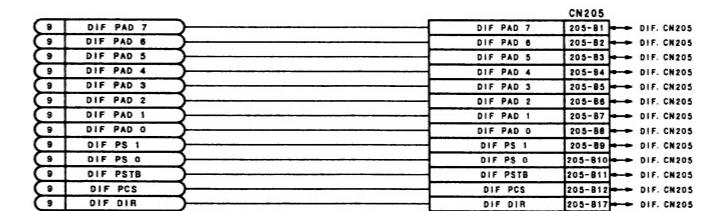
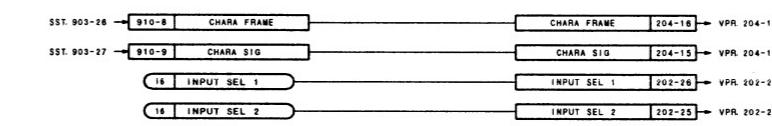
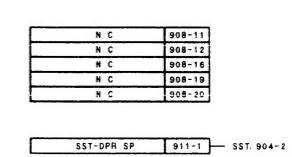
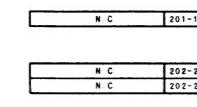
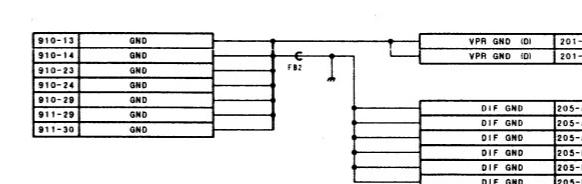
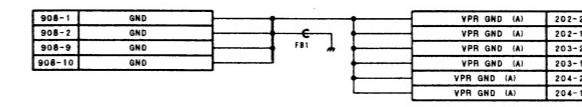
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4

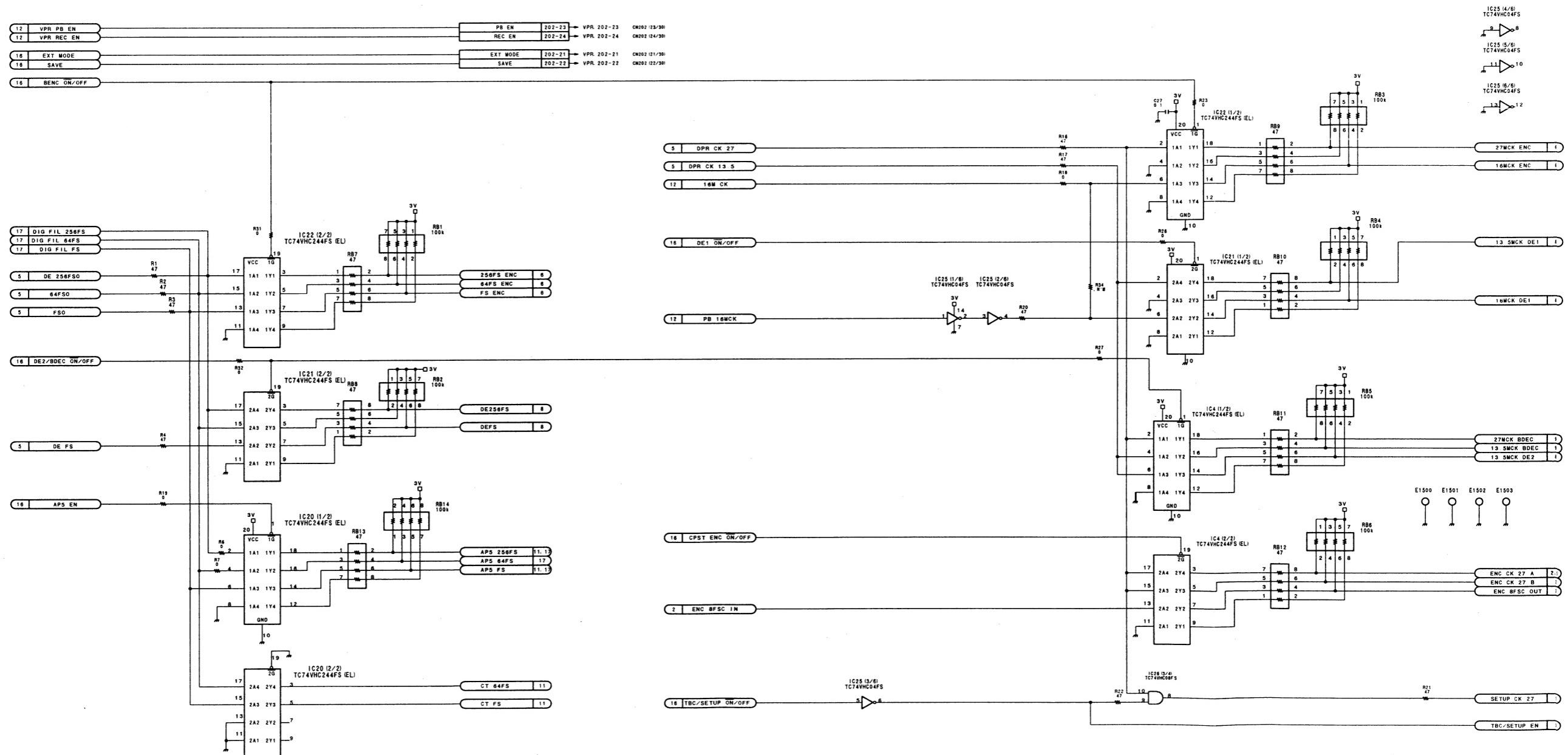


5



DIGITAL DATA PROCESSOR  
(ENCODE/DECODE, ERROR CORRECTION)  
REF CK GENERATOR, DATA RATE CONVERTER  
REC CURRENT CONTROL, REC ENVELOPE DETECTOR  
**DPR-62 (14/17)**  
BOARD NO. 1-657-806-11  
LOT NO. 409-  
B-VDW250-DPR62-12-S/M

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)



DIGITAL DATA PROCESSOR  
(ENCODE/DECODE, ERROR CORRECTION)  
REF CK GENERATOR, DATA RATE CONVERTER  
REC CURRENT CONTROL, REC ENVELOPE DETECTOR

**DPR-62 (15/17)**

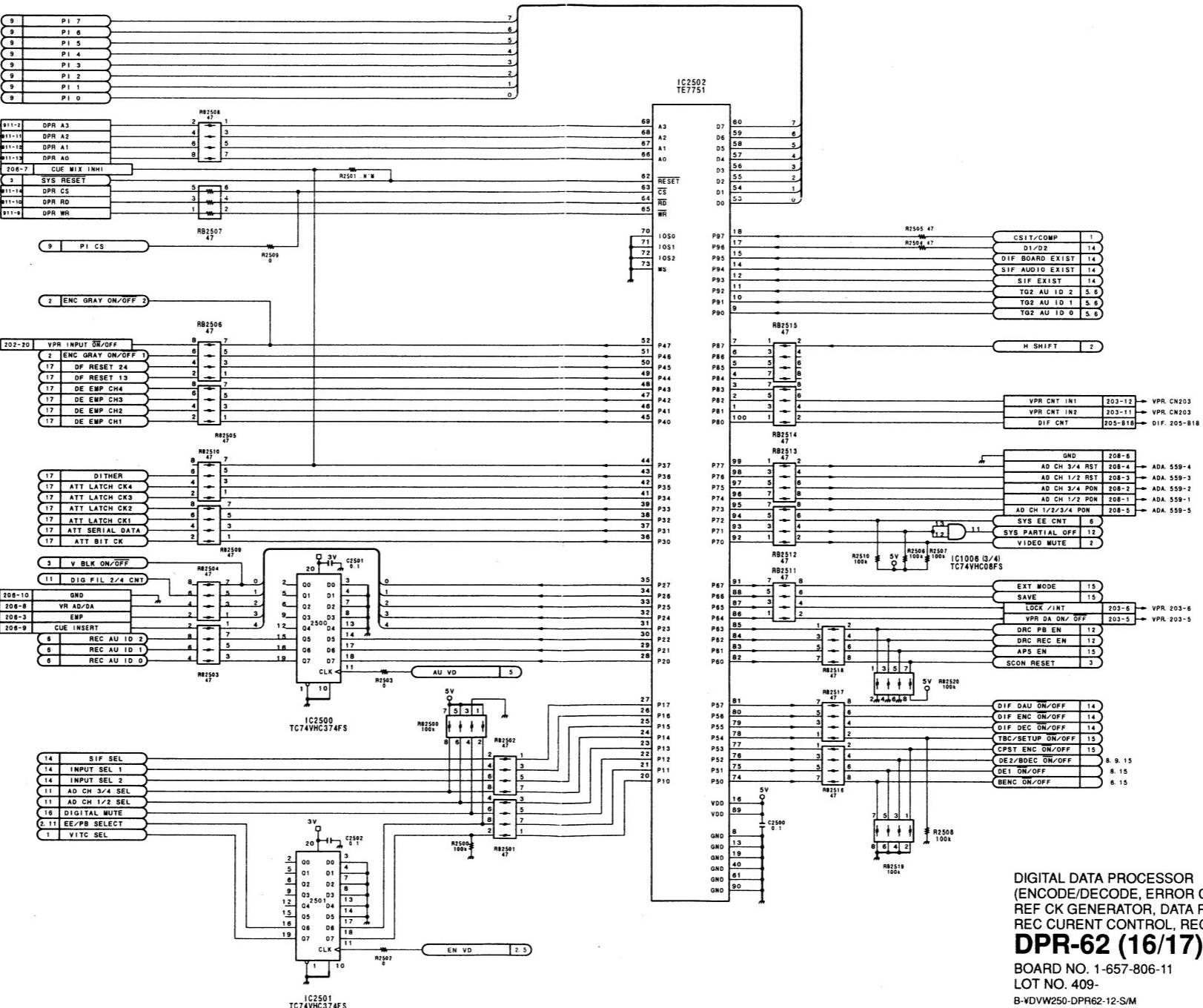
BOARD NO. 1-657-806-11

LOT NO. 409-

B-DVW250-DPR62-12-SM

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

1



A

B

C

D

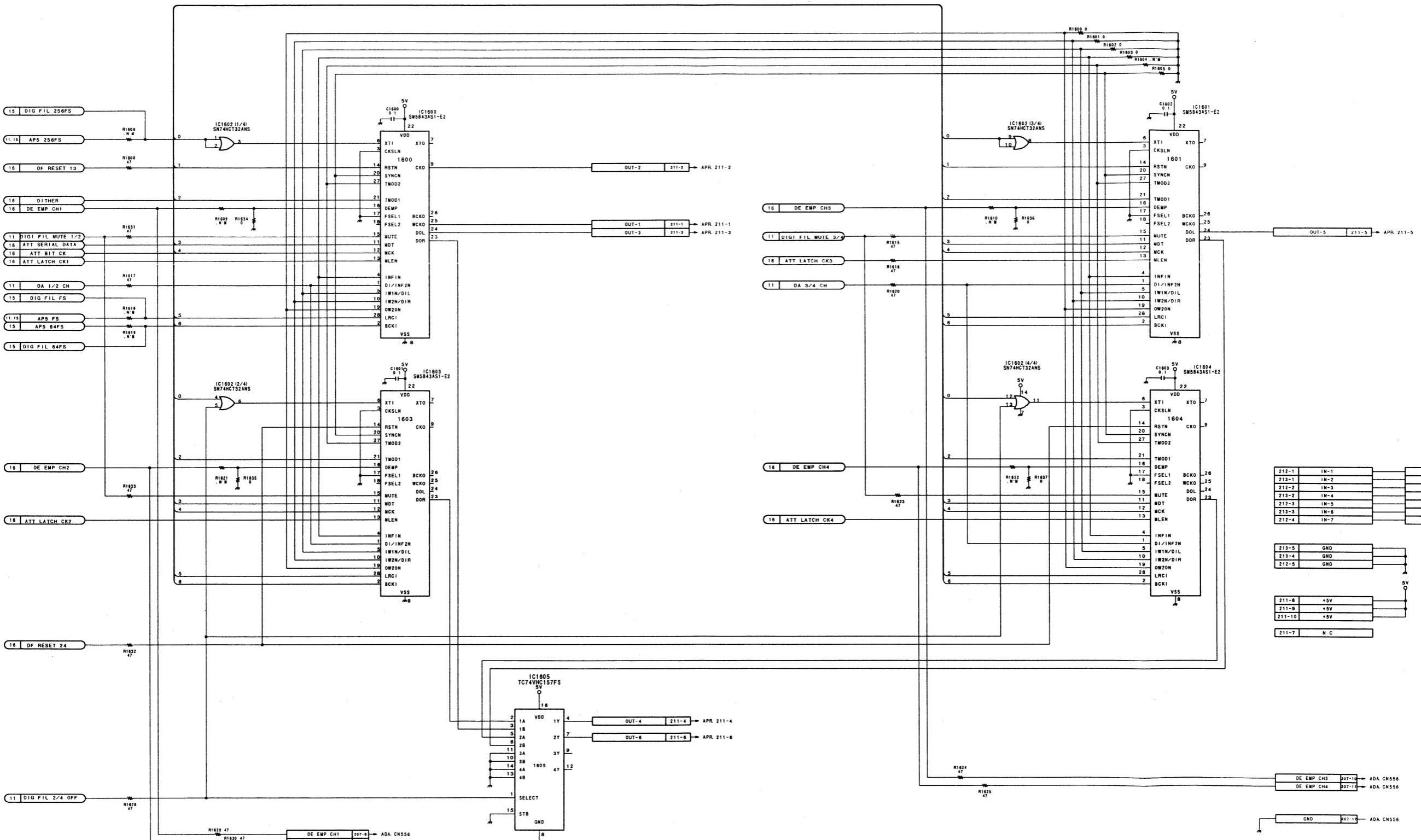
E

F

G

H

DVW-250 (J)  
 DVW-250 (UC)  
 DVW-250P (SY)



DIGITAL DATA PROCESSOR  
 (ENCODE/DECODE, ERROR CORRECTION,  
 REF CK GENERATOR, DATA RATE CONVERTER,  
 REC CURRENT CONTROL, REC ENVELOPE DETECTOR)

**DPR-62 (17/17)**

BOARD NO. 1-657-806-11  
 LOT NO. 409-  
 B-YDW250-DPR62-12-S/M

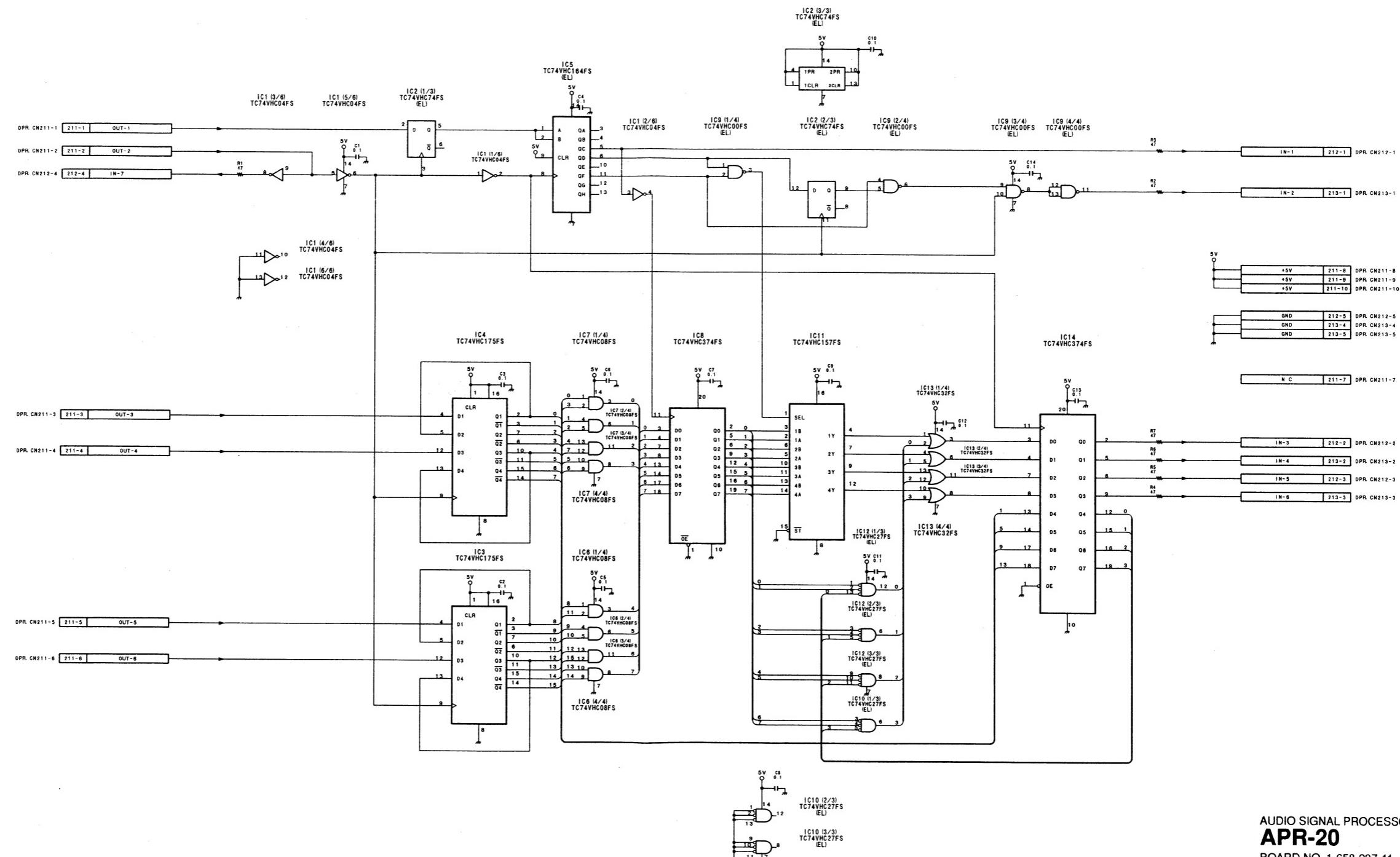
DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

APR-20 (1-658-297-11)

CN211 \*B2  
CN212 \*A6  
CN213 \*A6

IC1 C2  
IC2 C3  
IC3 A2  
IC4 B2  
IC5 C4  
IC6 A3  
IC7 B3  
IC8 B4  
IC9 C5  
IC10 A5  
IC11 B5  
IC12 A4  
IC13 B6  
IC14 A6

\*: Soldering Side



AUDIO SIGNAL PROCESSOR (LIMITTER)  
**APR-20**  
BOARD NO. 1-658-297-11  
LOT NO. 409-  
B-DVW250-APR20-11

A

B

C

3-68

3-68

D

E

F

G

H



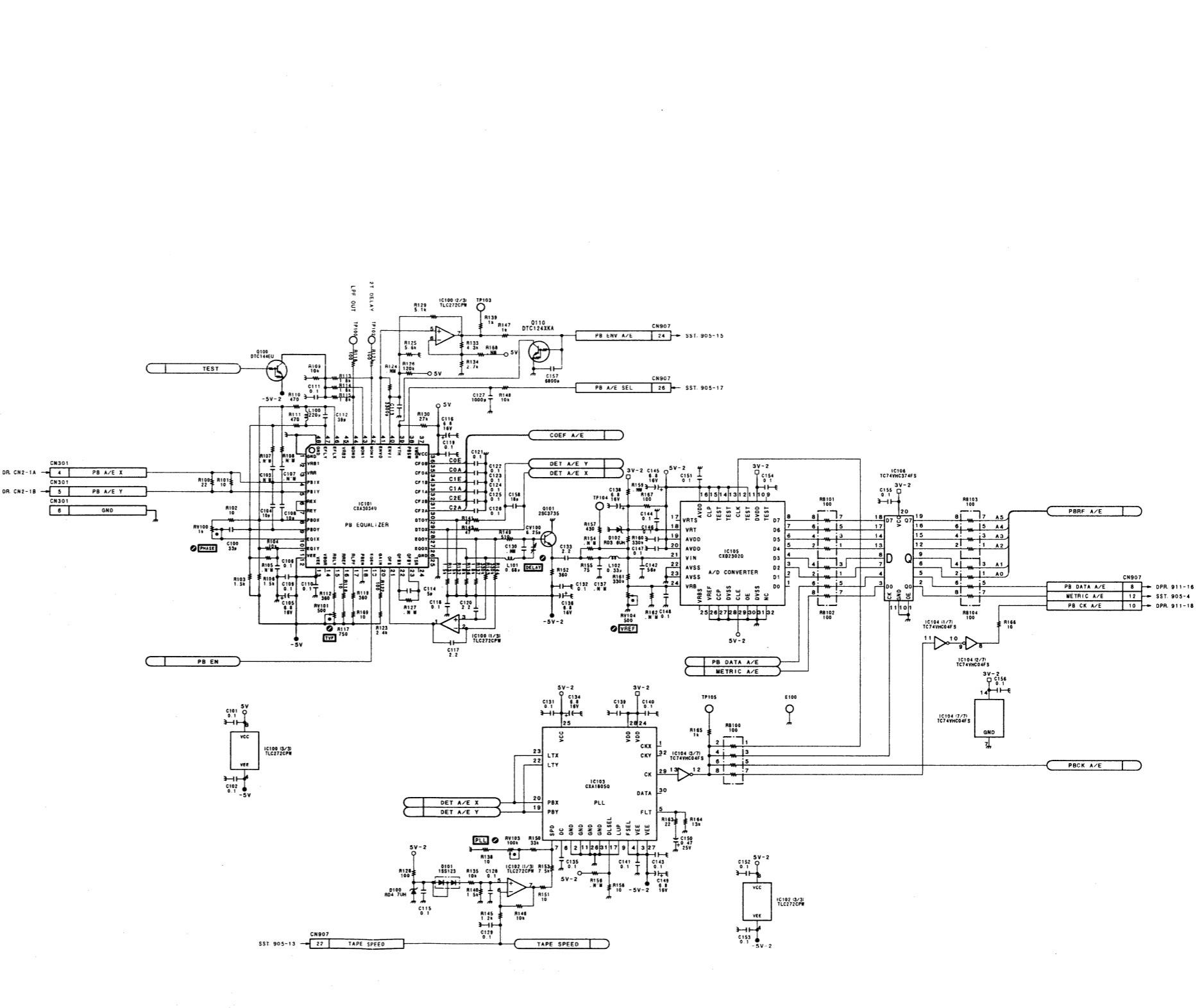
EQ-54 (1/3) EQ-54 (1/3)

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

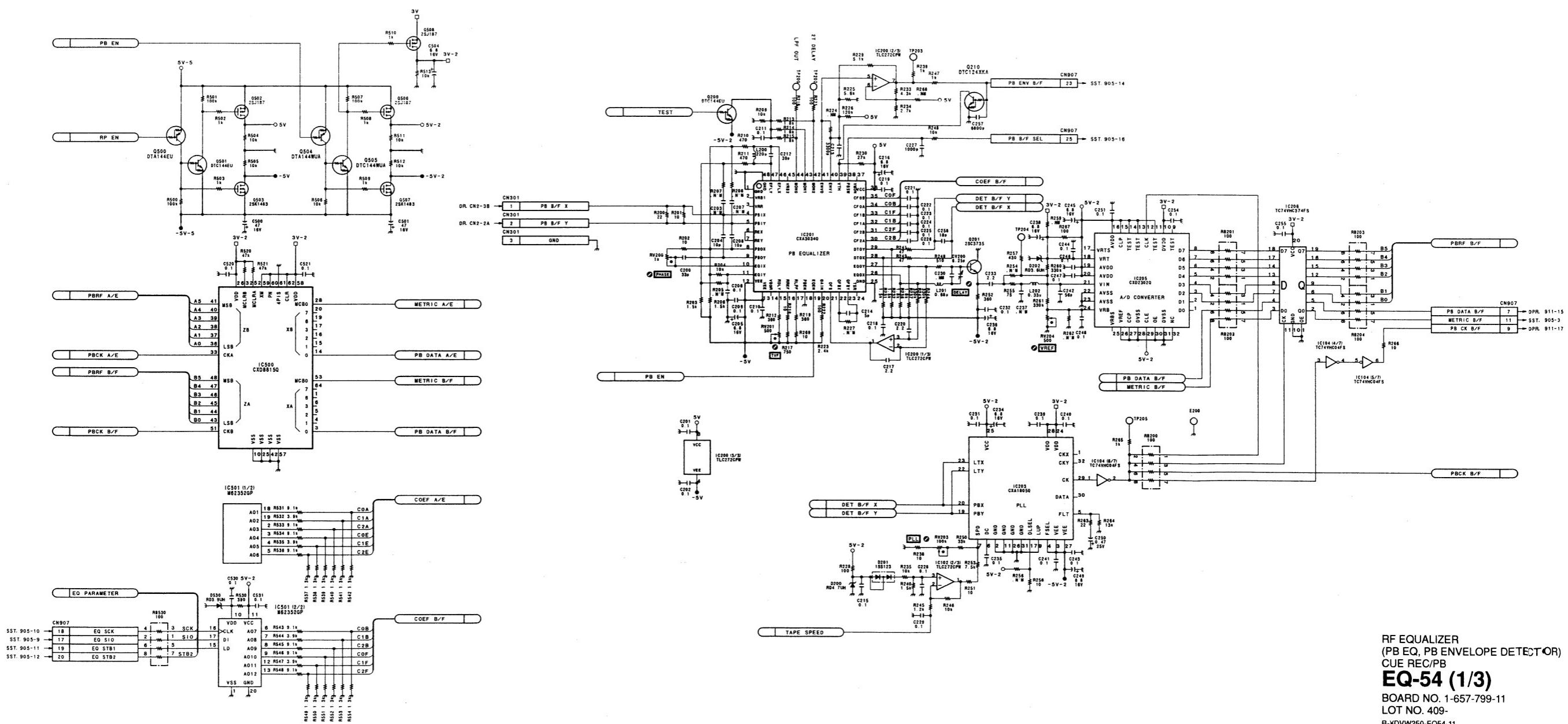
EQ-54 (1-657-799-11)

1	CN301	A1	L100	*A2	RB304	D4
	CN302	E1	L101	*A2	RB400	E3
	CN303	D1	L102	*A3	RB401	F3
	CN304	G1	L200	*C2	RB402	E3
	CN906	F4	L201	*B2	RB403	F4
	CN907	B4	L202	*C3	RB404	E4
			L300	*D2	RB530	C4
	CT800	G2	L301	*D2		
			L302	*D3	RV100	*A2
	CV100	*A2	L400	*E2	RV101	*A1
	CV200	*B2	L401	*E2	RV103	*B3
	CV300	*D2	L402	*F3	RV104	*A3
	CV400	*E2	L800	G4	RV200	*B2
	CV800	G2	L801	E4	RV201	*B1
			L802	G2	RV203	*B3
	D100	*B3	L900	D4	RV204	*C3
	D101	B3	L901	C4	RV300	*D2
	D102	*A3	L902	A4	RV301	*D1
	D200	*B3			RV303	*D3
	D201	B3	Q100	*B2	RV304	*C3
	D202	*C3	Q101	*A2	RV400	*E2
	D300	*E3	Q110	B2	RV401	*E1
	D301	D3	Q200	*C2	RV403	*E3
	D302	*C3	Q201	*B3	RV404	*E3
	D400	*E3	Q210	C2	RV800	*G2
	D401	E3	Q300	*E2	RV801	*G1
	D402	*E3	Q301	*D2	RV802	*G1
	D530	*B2	Q310	D2	RV803	*G1
	D630	*E2	Q400	*F2		
	D800	*G1	Q401	*E3	S700	C1
	D801	G1	Q410	F2		
			Q500	B1	TP100	*B1
	E100	D3	Q501	B1	TP102	*B2
	E200	*D4	Q502	*B1	TP103	*B2
	E300	A3	Q503	*B1	TP104	*A3
	E400	*D4	Q504	*C2	TP105	*A3
	E800	*F3	Q505	*C2	TP200	*C1
			Q506	C2	TP202	*C2
	IC100	*B2	Q507	A2	TP203	*C2
	IC101	A2	Q508	*B4	TP204	*C3
	IC102	B3	Q600	D1	TP205	*C3
	IC103	B3	Q601	D1	TP300	*D1
	IC104	*B4	Q602	*D1	TP302	*D2
	IC105	A3	Q603	*D1	TP303	*D2
	IC106	*A4	Q604	*F2	TP304	*D3
	IC200	*C2	Q605	*F2	TP305	*D3
	IC201	C2	Q606	F2	TP400	*F1
	IC203	B3	Q607	D2	TP402	*F2
	IC205	C3	Q608	*D4	TP403	*F2
	IC206	*C4	Q700	*F1	TP404	*F3
	IC300	*D2	Q701	*F1	TP405	*E3
	IC301	D2	Q702	*F1	TP800	*F3
	IC302	E3	Q703	F1	TP801	*G1
	IC303	D3	Q704	E1	TP802	*F3
	IC304	*E4	Q800	G3	TP803	*G2
	IC305	D3	Q801	G3	TP804	*G1
	IC306	*D4	Q802	G2	TP805	*G1
	IC400	*F2	Q803	G2	TP806	*G2
	IC401	E2	Q804	*G2		
	IC403	E3	Q805	G2		
	IC405	F3	Q806	G3		
	IC406	*F4	Q807	*G2		
	IC500	B4	Q808	*G2		
	IC501	B2	Q809	G2		
	IC600	E4	Q810	G2		
	IC601	D2	Q811	G1		
	IC700	G4	Q812	G1		
	IC701	G4				
	IC702	G4	RB100	A3		
	IC705	G4	RB102	A3		
	IC706	G3	RB103	A4		
	IC708	G3	RB104	A4		
	IC800	G1	RB200	C3		
	IC801	G2	RB201	C3		
	IC802	G1	RB202	C3		
	IC803	*G2	RB203	C4		
	IC804	F3	RB204	C4		
	IC805	F2	RB300	D3		
	IC806	*F2	RB301	D3		
			RB302	C3		
	LV800	G2	RB303	D4		

\* : Soldering Side



EQ-54 (1/3) EQ-54 (1/3)



RF EQUALIZER  
(PB EQ, PB ENVELOPE DETECTOR)  
CUE REC/PB  
**EQ-54 (1/3)**  
BOARD NO. 1-657-799-11  
LOT NO. 409-  
B-DVW250-EQ54-11

EQ-54 (2/3) EQ-54 (2/3)

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

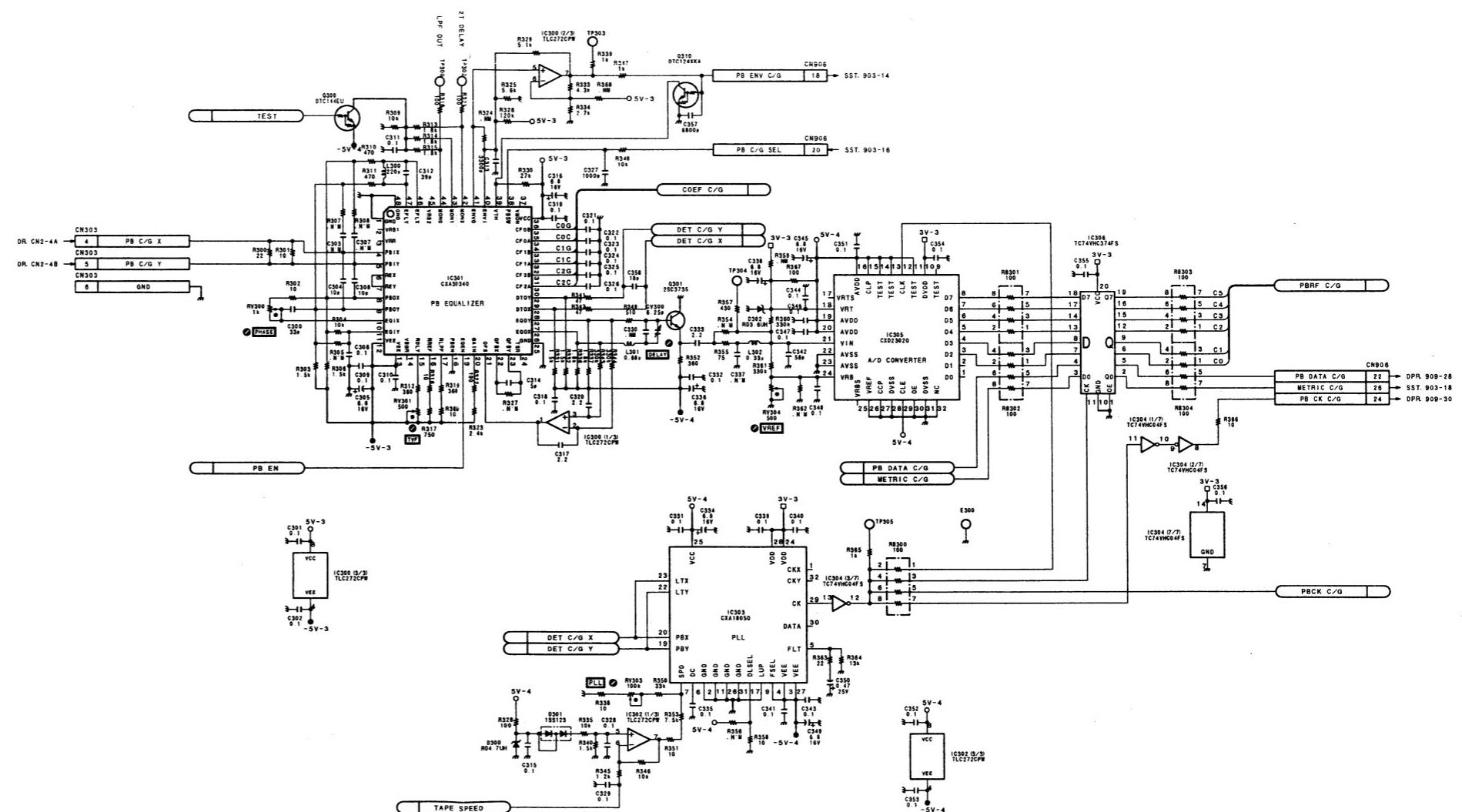
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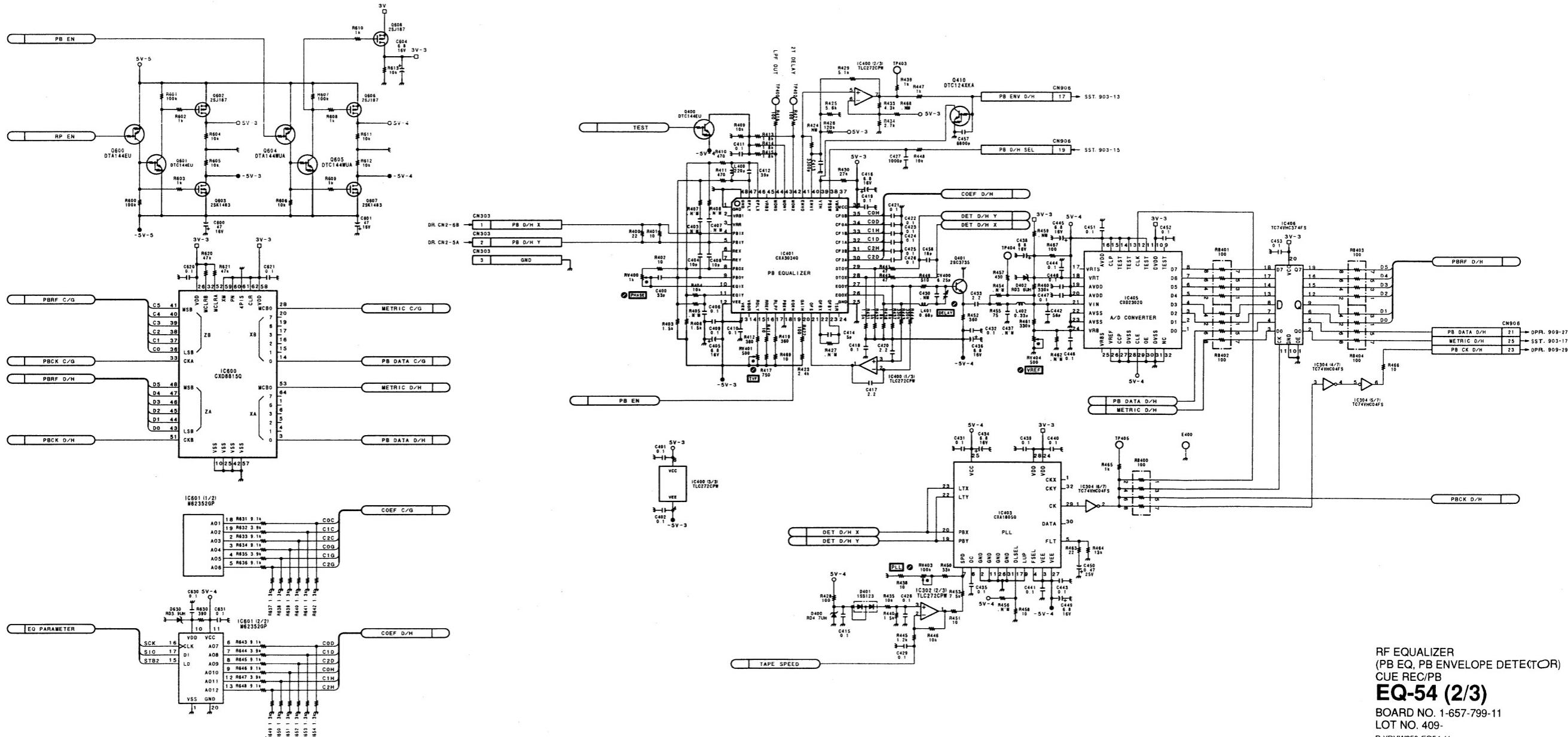
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**DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)**

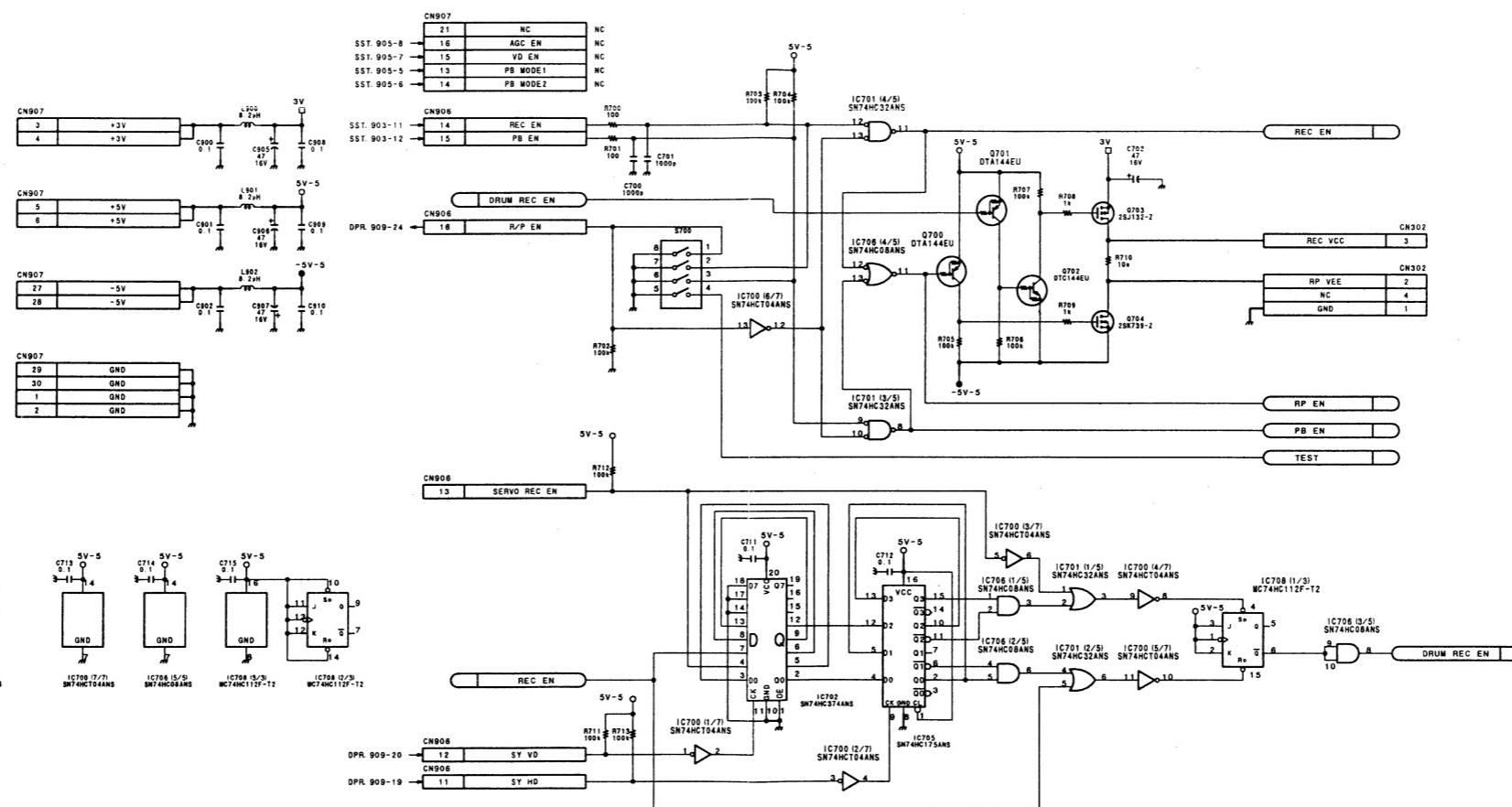
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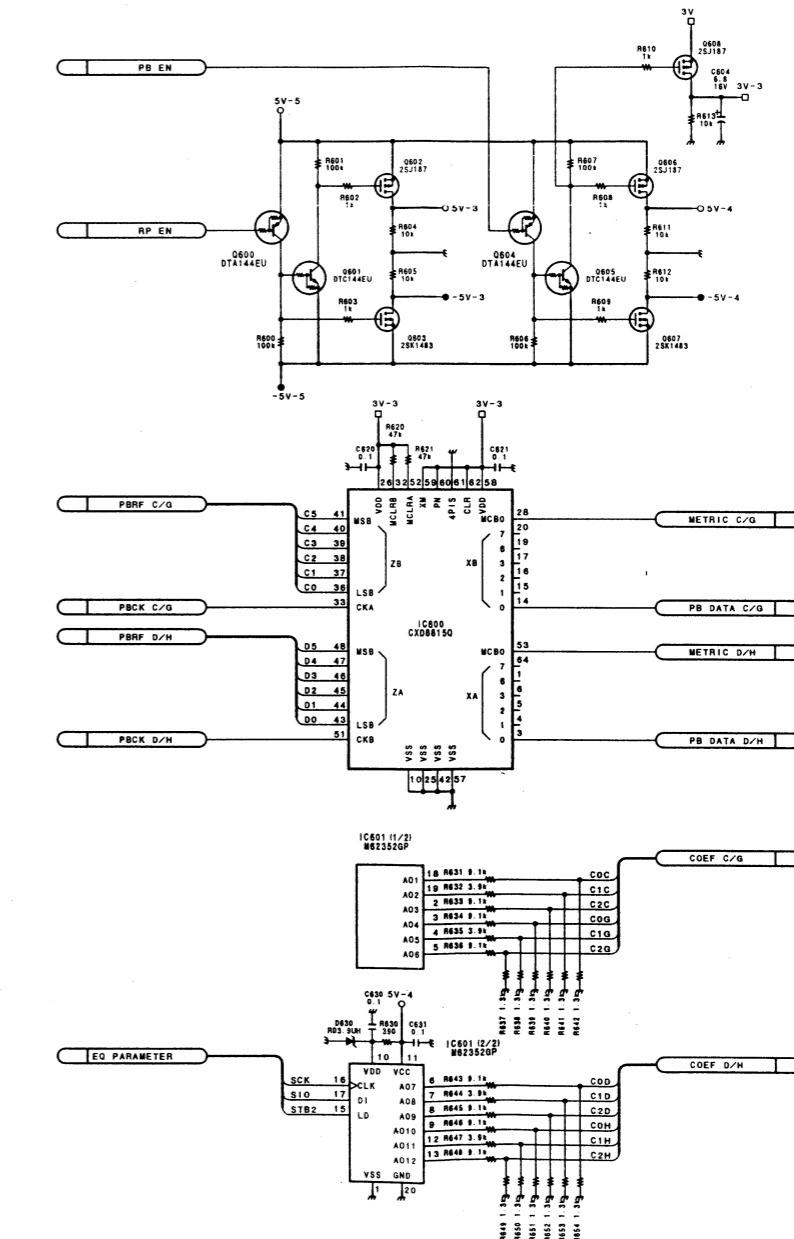
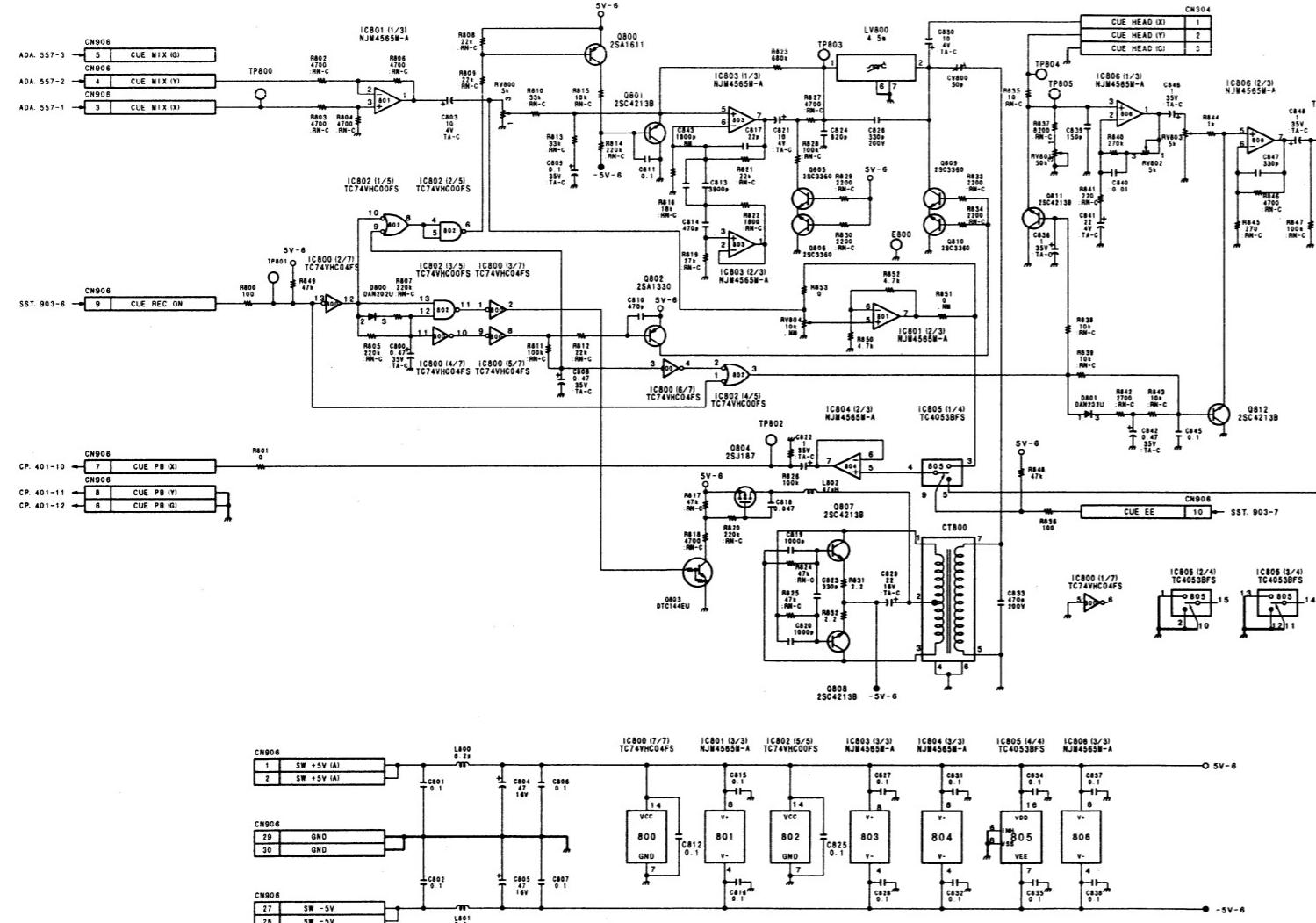
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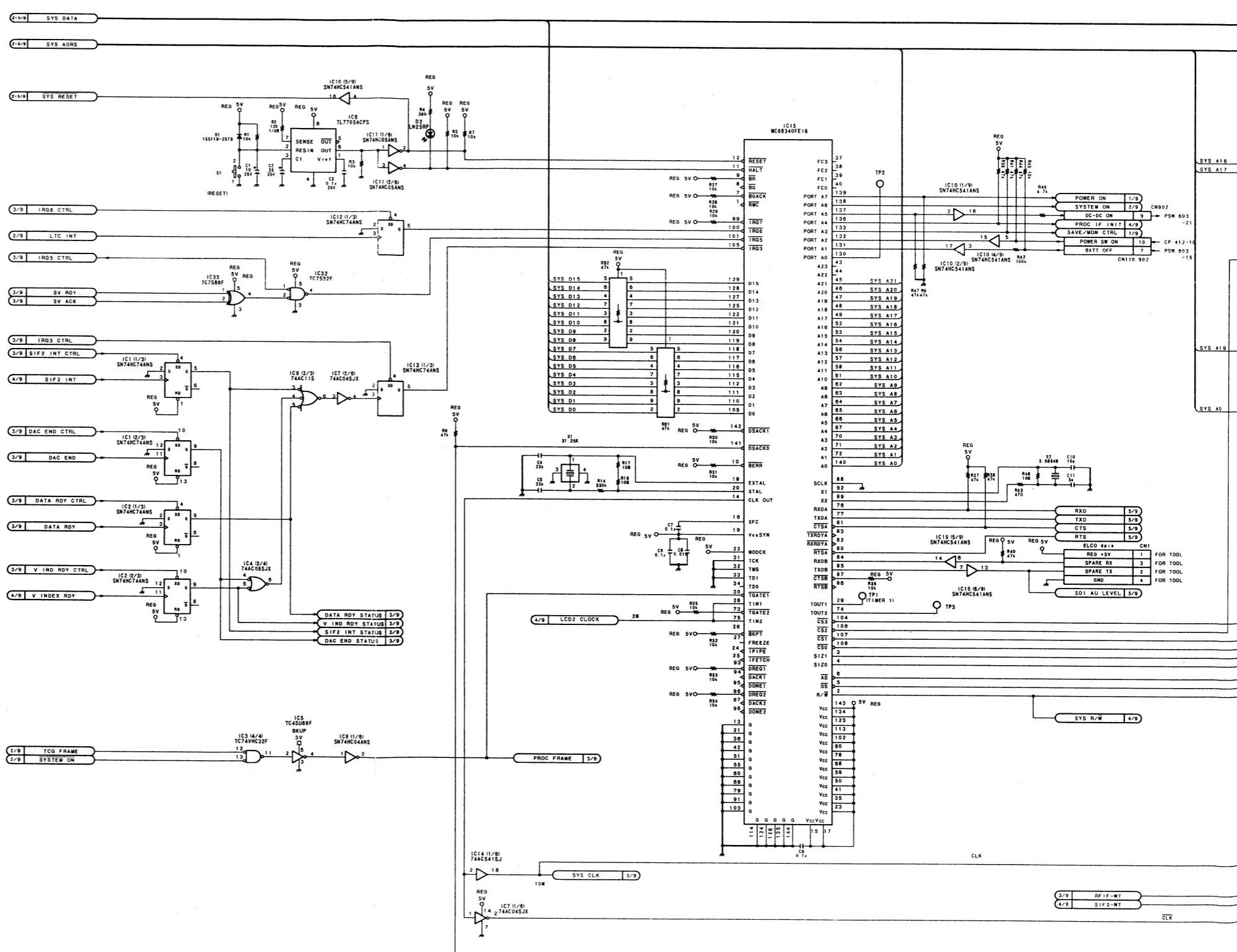


**RF EQUALIZER**  
 (PB EQ, PB ENVELOPE DETE<sup>TOR</sup>)  
**CUE REC/PB**  
**EQ-54 (3/3)**  
 BOARD NO. 1-657-799-11  
 LOT NO. 409-  
 B-VDVW250-E054-11

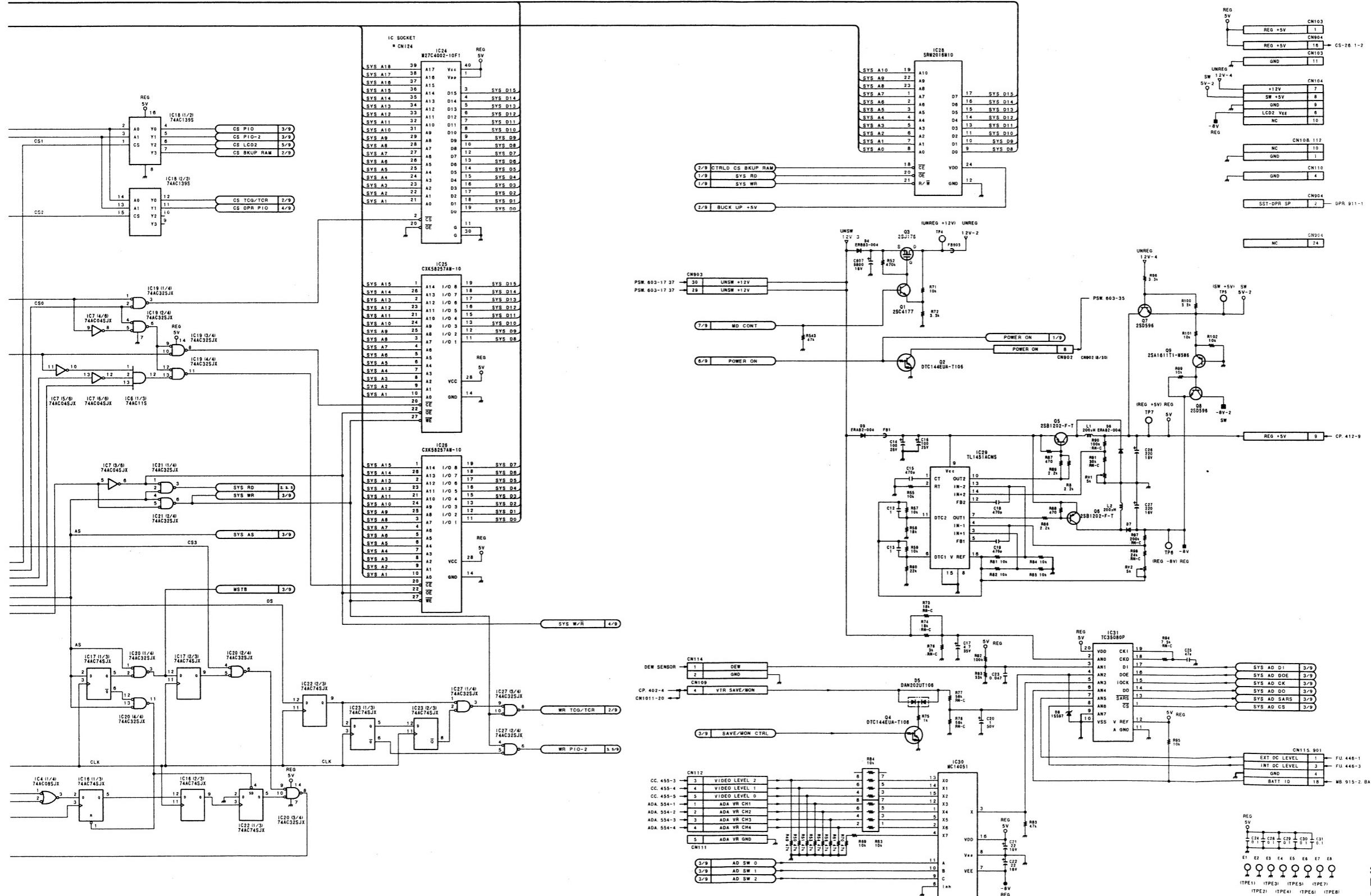
DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

SST-3 (1-657-804-11)

BT111	* E1	E2	E2	IC409	D9	Q619	J6	TP1	B5
CNI24	C2	E3	H2	IC410	D10	Q620	B7	TP2	D4
CNI413	E8	E4	B5	IC411	E6	Q621	B7	TP3	D4
		E5	F5	IC412	F6	Q622	H7	TP4	C6
		E6	H5	IC413	E8	Q623	H6	TP5	B8
CN1	B5	E7	B6	IC414	* E7	Q624	B7	TP6	B8
CN101	J3	E8	G6	IC501	A10	Q625	B7	TP7	B2
CN102	* G10	E10	J10	IC502	B9	Q626	* H6	TP111	E4
CN103	A3	E901	A9	IC504	C9	Q627	* H7	TP112	D4
CN104	A2			IC505	B10	Q628	* B7	TP113	D4
CN105	J8	FB1	* C7	IC506	H6	Q629	* B7	TP114	D3
CN106	J4	FB601	* A6	IC601	E9	Q801	J8	TP116	E3
CN107	* F10	FB602	G6	IC602	E10	Q802	J9	TP153	E1
CN108	J1	FB603	H10	IC603	E10	Q851	* J10	TP401	D8
CN109	J7			IC604	E9	Q852	* J10	TP501	B9
CN110	J8	IC1	* D3	IC605	E7	Q853	* J9	TP502	B9
CN111	A1	IC2	* D3	IC606	A6	Q854	J9	TP503	B9
CN112	J2	IC3	F4	IC607	G7	Q855	J9	TP504	B9
CN113	J3	IC4	G2	IC608	H7	Q856	H10	TP505	B10
CN114	* B10	IC5	H4	IC609	B8	Q901	* A10	TP506	F5
CN115	J1	IC6	* F3	IC610	B8	Q902	* A10	TP507	F5
CN501	D6	IC7	C1	IC611	J7	Q903	* A9	TP508	B10
CN901	J10	IC8	A5	IC612	B6	Q904	A9	TP601	H7
CN902	G10	IC9	* G4	IC801	J10	Q905	A9	TP602	A8
CN903	D10	IC10	C5	IC802	J9	Q941	* A7	TP801	J10
CN904	C10	IC11	A5	IC803	J10	Q942	A7	TP802	J8
CN905	A10	IC12	F3	IC851	J10	Q943	A7	TP851	J10
CT941	A8	IC14	F3	IC852	H10	Q944	* A7	TP852	H9
CT961	H8	IC15	C4	IC853	H9	Q945	* A7	TP901	A10
CV111	D4	IC17	F3	IC902	A10	Q962	* H8	TP941	A8
		IC18	D3	IC903	A9	Q963	H7	TP942	A7
D1	A5	IC19	C3	IC941	A7	Q965	* J8	TP961	H8
D2	A5	IC20	G3	IC961	H8	Q966	H7	TP962	H8
D3	C7	IC21	C1					X1	B5
D4	C7	IC22	H3	LV961	G8	RB1	* C4	X2	D4
D5	* A1	IC23	H4			RB2	* C4	X111	D5
D6	C8	IC24	C2	L1	C8	RB3	A1	X112	E4
D7	C8	IC25	B3	L2	C8	RB4	J2	X113	D3
D111	E5	IC26	B2	L301	D1	RB101	D4	X401	D7
D112	E1	IC27	G4	L601	E7	RB102	D5		
D113	E4	IC28	C3	L602	F7	RB151	* A3		
D114	D1	IC29	B7	L603	G8	RB152	* B3		
D115	E3	IC30	B1	L604	B8	RB153	* B4		
D301	E1	IC31	B1	L941	A7	RB154	* A3		
D302	D1	IC32	A3	L961	J7	RB155	* A4		
D351	* J3	IC33	A4	L981	G9	RB156	* A3		
D352	* J3	IC112	E4	L982	G9	RB157	* A3		
D353	* H3	IC113	D5			RB158	* F1		
D354	* J3	IC114	D4	Q1	* C7	RB159	* E2		
D355	* J3	IC115	E5	Q2	* C7	RB160	* E2		
D356	* J3	IC116	F4	Q3	C7	RB161	* E1		
D357	* J3	IC117	E4	Q4	* A1	RB162	* E2		
D358	* J3	IC118	E3	Q5	* C8	RB163	* F2		
D401	C6	IC119	F4	Q6	* C8	RB301	* H2		
D402	C6	IC120	G5	Q7	* B7	RB302	* J2		
D403	D6	IC121	G4	Q8	* B9	RB303	* J1		
D404	C6	IC151	A4	Q9	* C8	RB304	* E5		
D405	B6	IC153	A3	Q151	* A3	RB305	* F4		
D406	B6	IC154	A4	Q152	* A3	RB401	D8		
D407	C6	IC155	A3	Q153	* A3	RB402	D5		
D408	B6	IC156	A3	Q401	* C6	RB403	D5		
D409	A6	IC158	E1	Q402	* C6	RB404	* D6		
D501	* A6	IC160	G3	Q403	D6	RB405	* E6		
D502	* J6	IC164	F5	Q404	C6	RB406	* D5		
D505	G5	IC165	E2	Q405	B6	RB501	G6		
D506	G5	IC167	D3	Q406	A6	RB502	G6		
D507	G5	IC301	G3	Q407	C6	RB503	D9		
D508	G5	IC302	D1	Q408	B6	RB504	D9		
D601	* A6	IC303	H1	Q409	A6	RB505	D10		
D602	F6	IC304	J2	Q501	* J3	RB506	D10		
D603	F6	IC306	F5	Q502	J5	RB508	J6		
D604	* F10	IC307	J3	Q503	* H9	RB509	J5		
D605	* J6	IC308	J1	Q601	* F9	RB510	J5		
D606	B6	IC309	G2	Q602	* A6	RB511	J5		
D607	F7	IC310	G1	Q603	* F7	RB512	* J5		
D608	A9	IC311	E5	Q604	F9	RB513	J6		
D609	* H6	IC312	E4	Q605	* F9	RB514	J6		
D610	* B7	IC351	A2	Q606	F9				
D611	* J6	IC352	A1	Q607	* E6	RV1	C7		
D612	B6	IC353	H3	Q608	F10	RV2	B7		
D613	H10	IC354	J4	Q609	* G10	RV401	A4		
D801	* J9	IC355	F2	Q610	* H6	RV402	* A6		
D802	* J9	IC401	D8	Q611	* B8				
D803	J9	IC402	D8	Q612	* G8	RY961	G8		
D804	* J9	IC403	D8	Q613	* B8				
D941	* A7	IC404	D6	Q614	* H6	S1	A5		
D961	* H8	IC405	E8	Q615	* B7	S151	F1		
D962	H8	IC406	D7	Q616	* H7	S501	G6		
		IC407	D7	Q617	* B7	S502	F6		
E1	B2	IC408	B6	Q618	J7	S503	F6		



### SST-3 (1/9)      SST-3 (1/9)

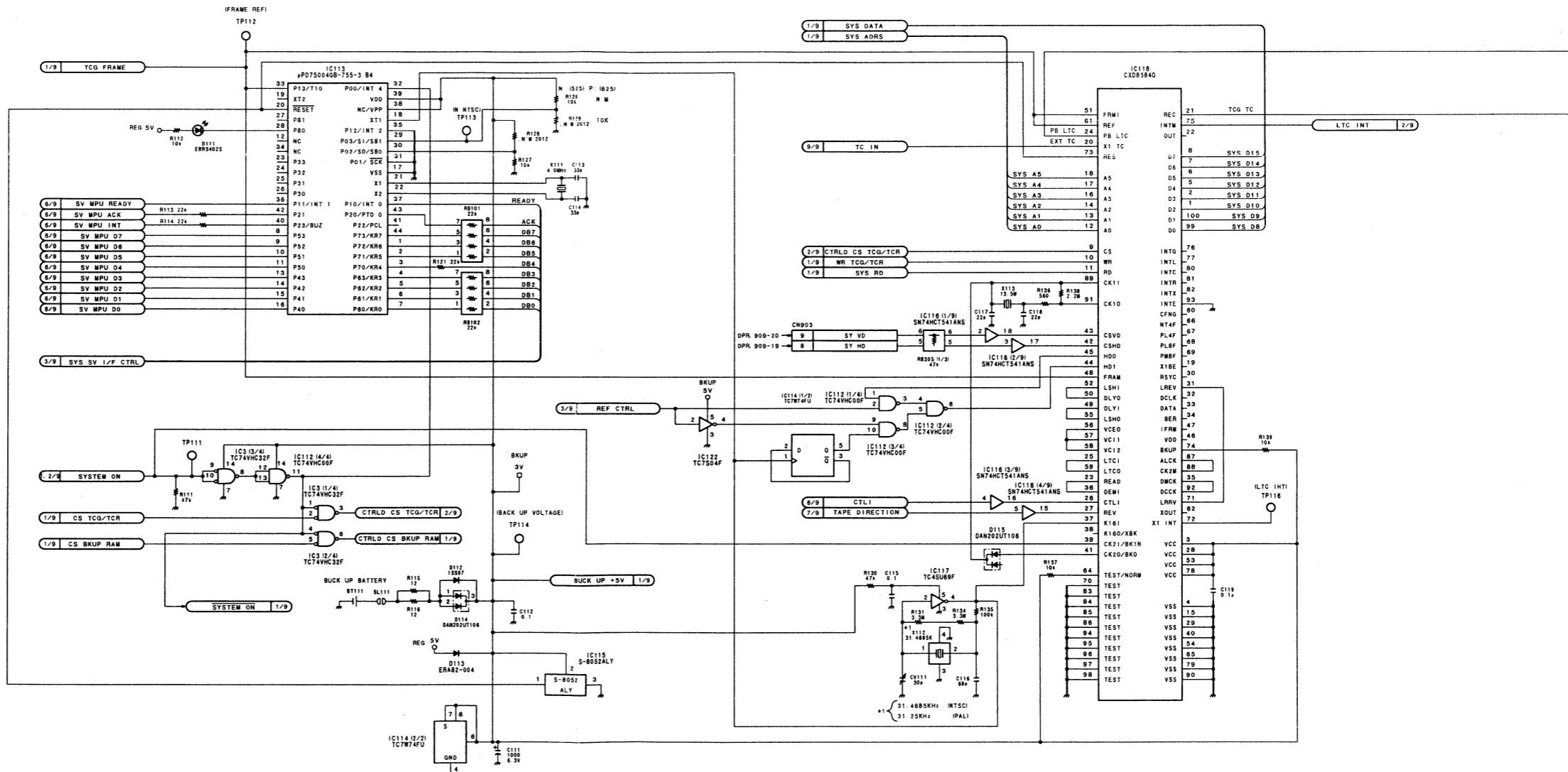


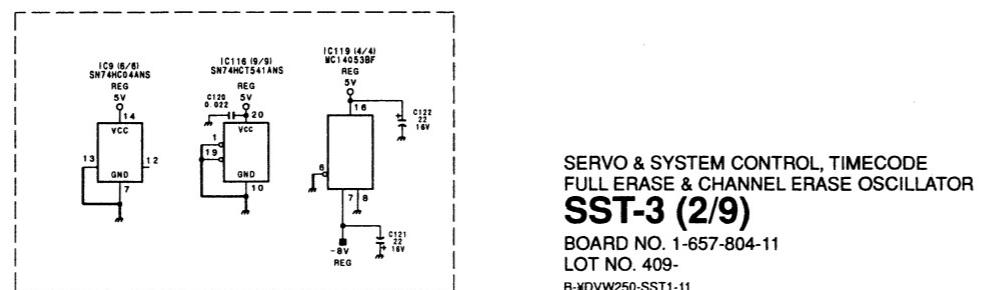
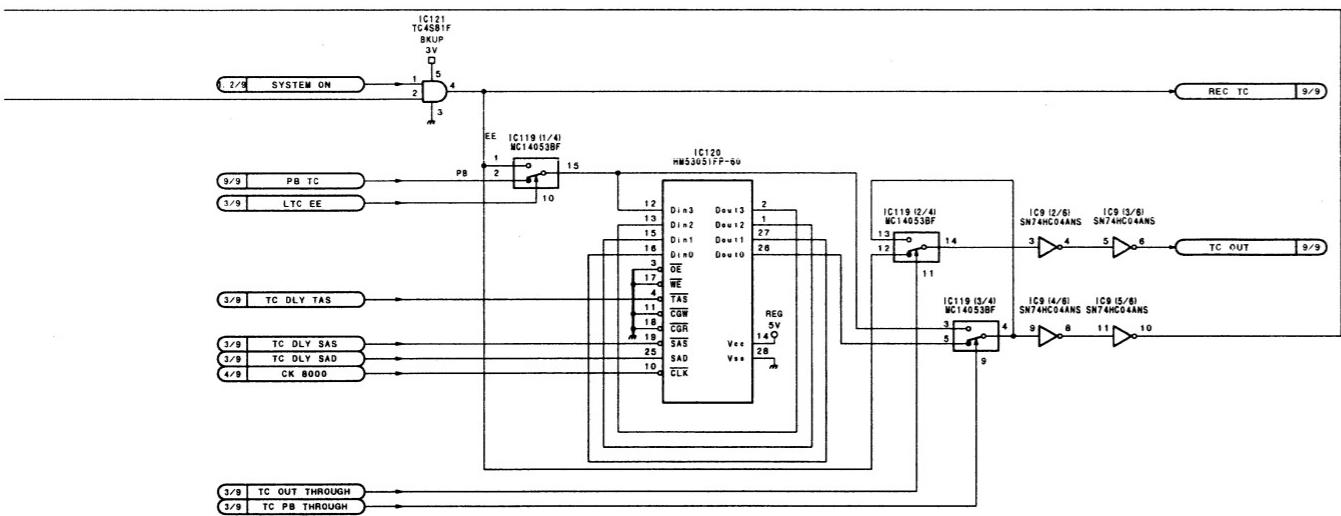
*SST-3BOARD N P NOTE		
REF.	NTSC	PAL
C806	0 0047 1-104-547-9	0 0056 1-104-548-91
R128	10K 1-216-073-91	NOT MOUNT
R129	NOT MOUNT	10K 1-216-073-91
R252	10K 1-216-073-91	NOT MOUNT
R253	NOT MOUNT	10K 1-216-073-91
X112	31 4685KHz 1-579-742-11	31 25KHz 1-578-741-11

SERVO & SYSTEM CONTROL, TIMECODE  
FULL ERASE & CHANNEL ERASE OSCILLATOR  
**SST-3 (1/9)**

BOARD NO. 1-657-804-11  
LOT NO. 409-  
B-VDVW250-SST1-11

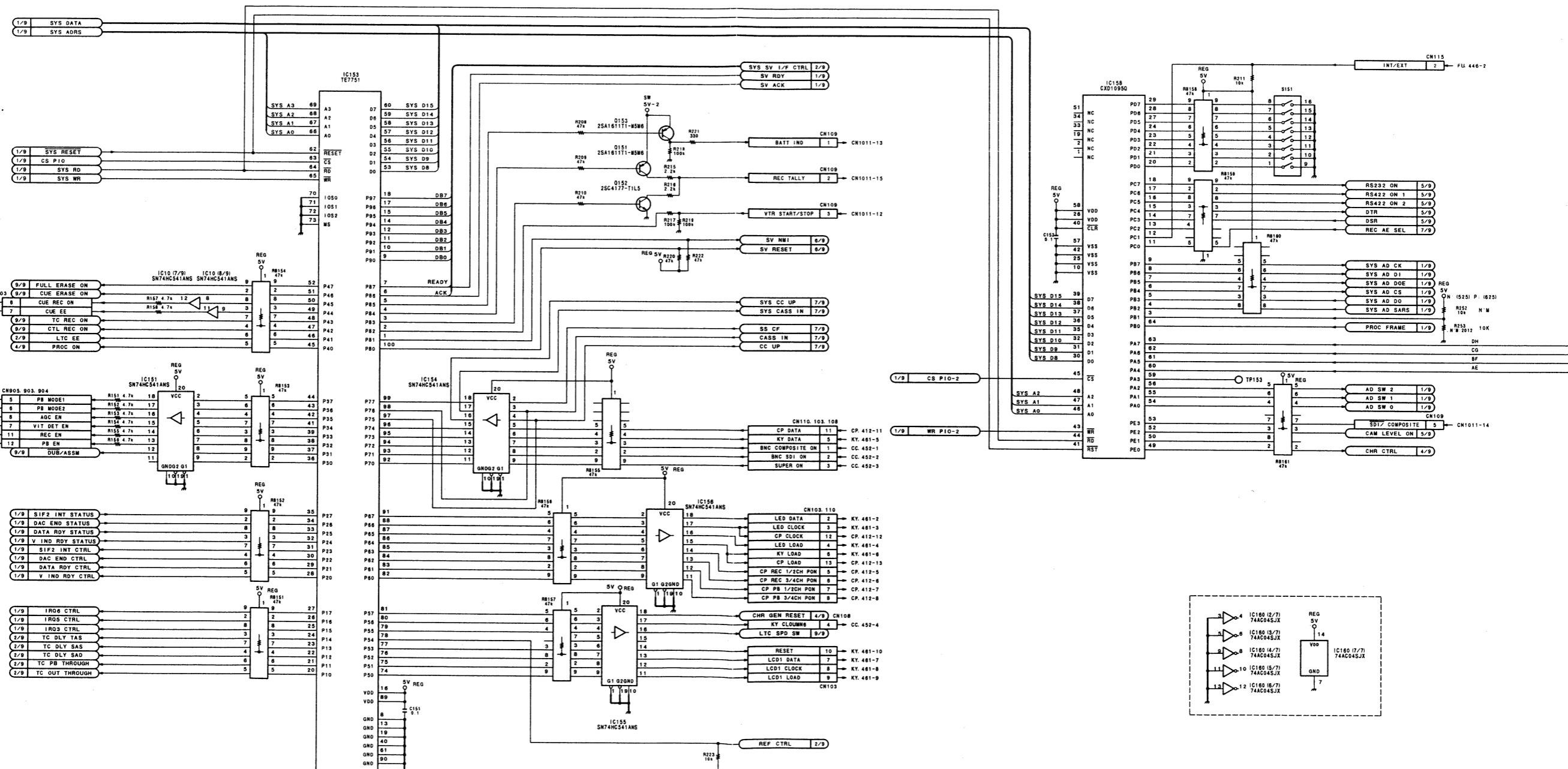
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DVW-250 (UC)  
DVW-250P (SY)

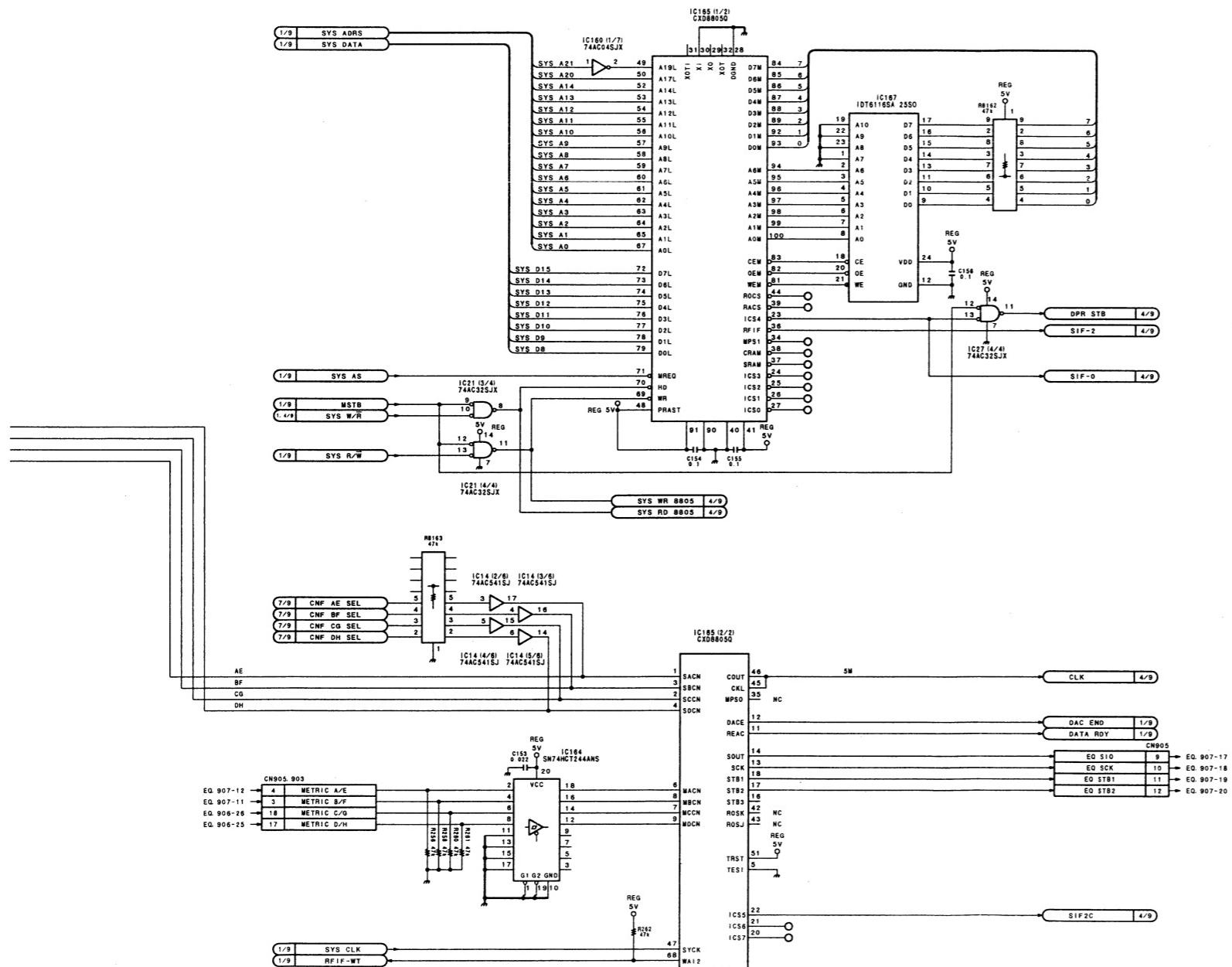




SST-3 (3/9) SST-3 (3/9)

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)



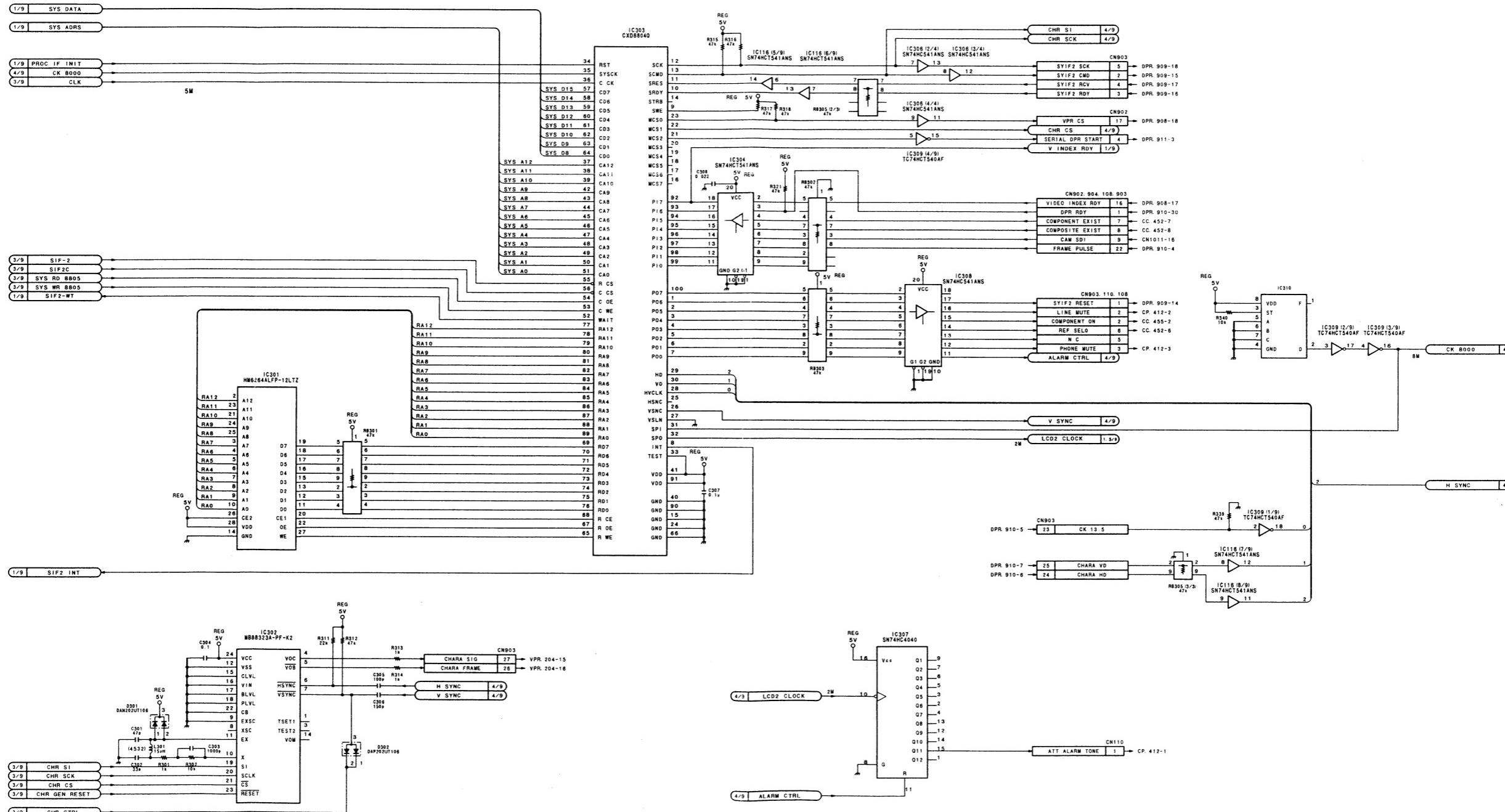


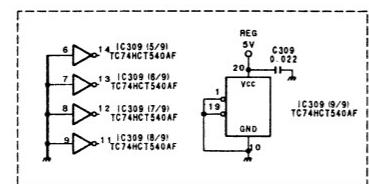
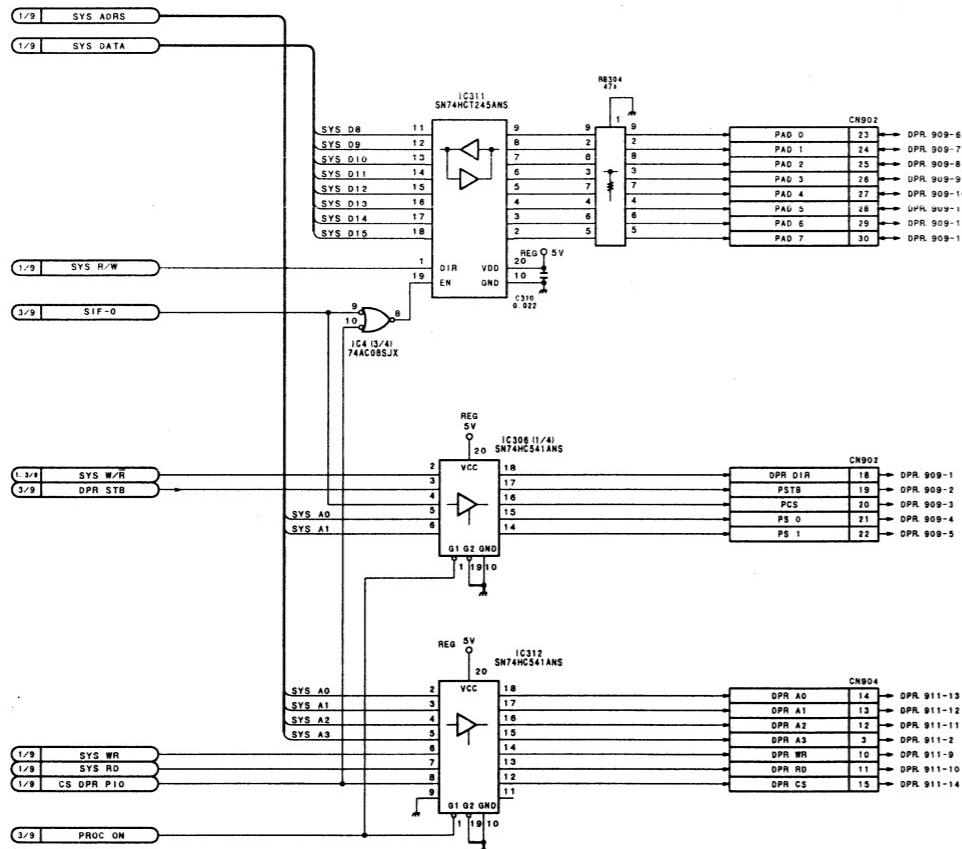
SERVO & SYSTEM CONTROL, TIMECODE  
FULL ERASE & CHANNEL ERASE OSCILLATOR  
**SST-3 (3/9)**  
BOARD NO. 1-657-804-11  
LOT NO. 409-  
P/N D1010000 SST-3 11

SST-3 (4/9) SST-3 (4/9)

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

1





SERVO & SYSTEM CONTROL, TIMECODE  
FULL ERASE & CHANNEL ERASE OSCILLATOR  
**SST-3 (4/9)**

BOARD NO. 1-657-804-11  
LOT NO. 409-  
B-DVW250-SST1-11

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

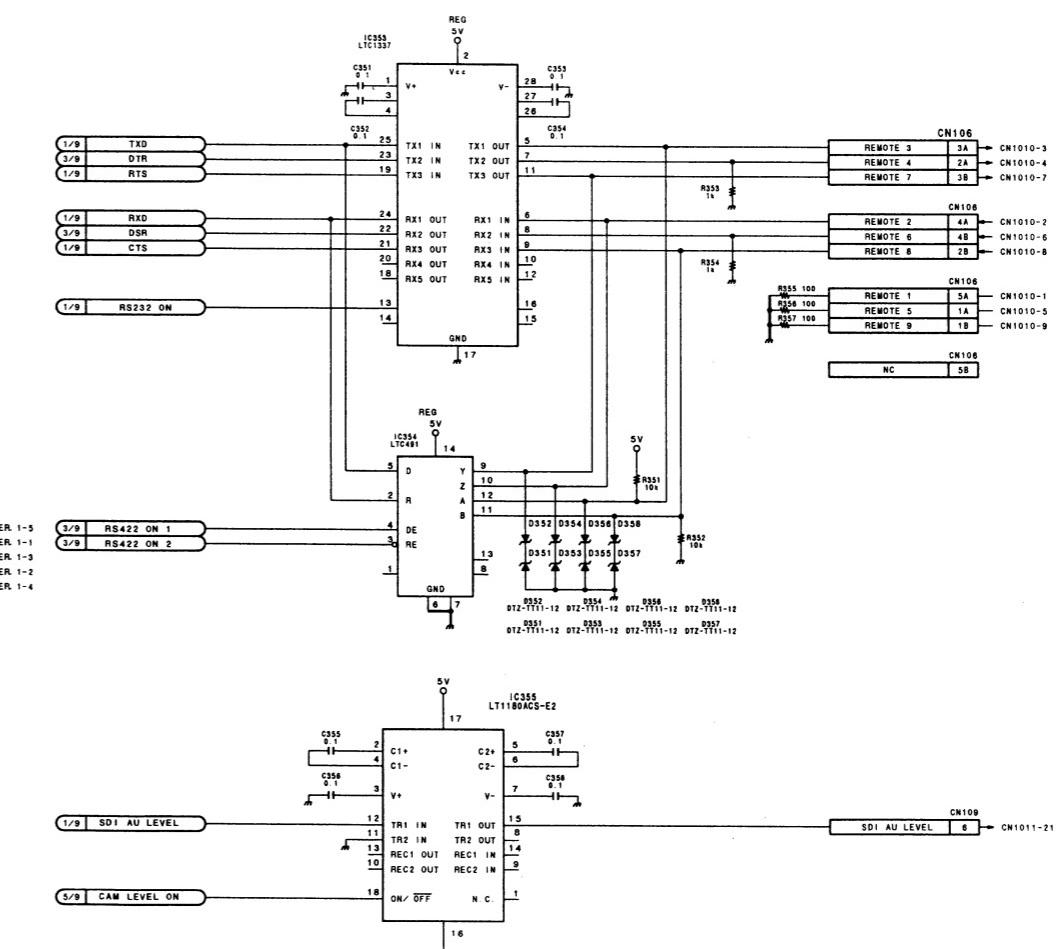
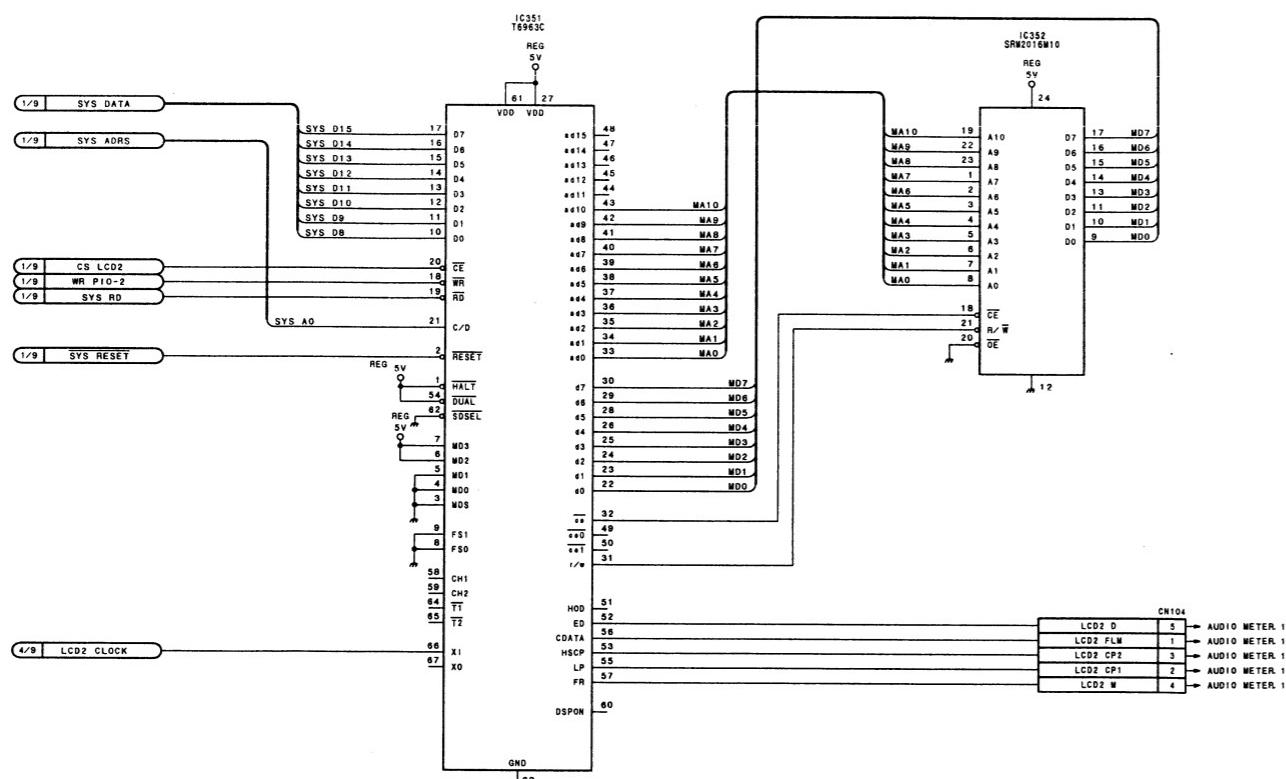
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SERVO & SYSTEM CONTROL, TIMECODE  
FULL ERASE & CHANNEL ERASE OSCILLATOR

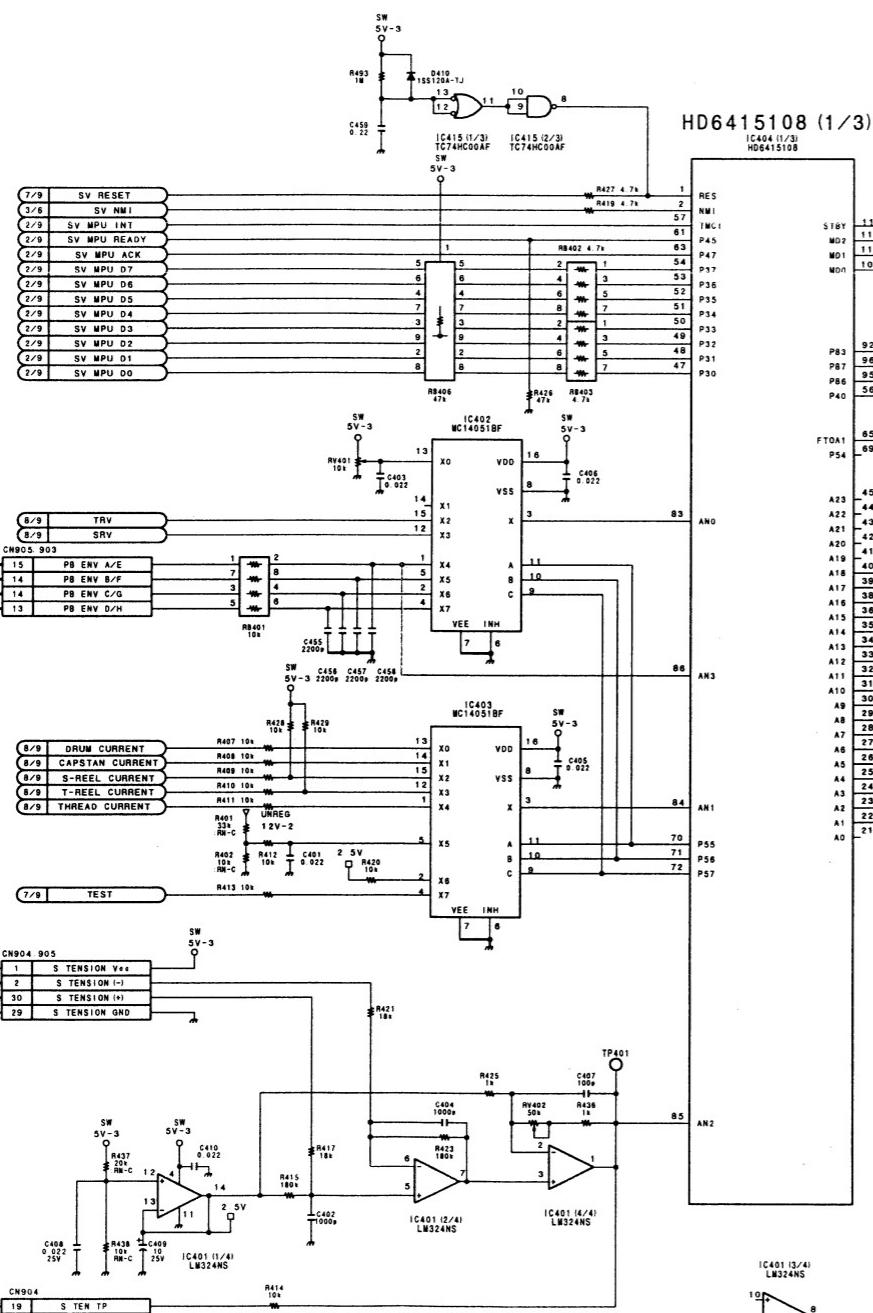
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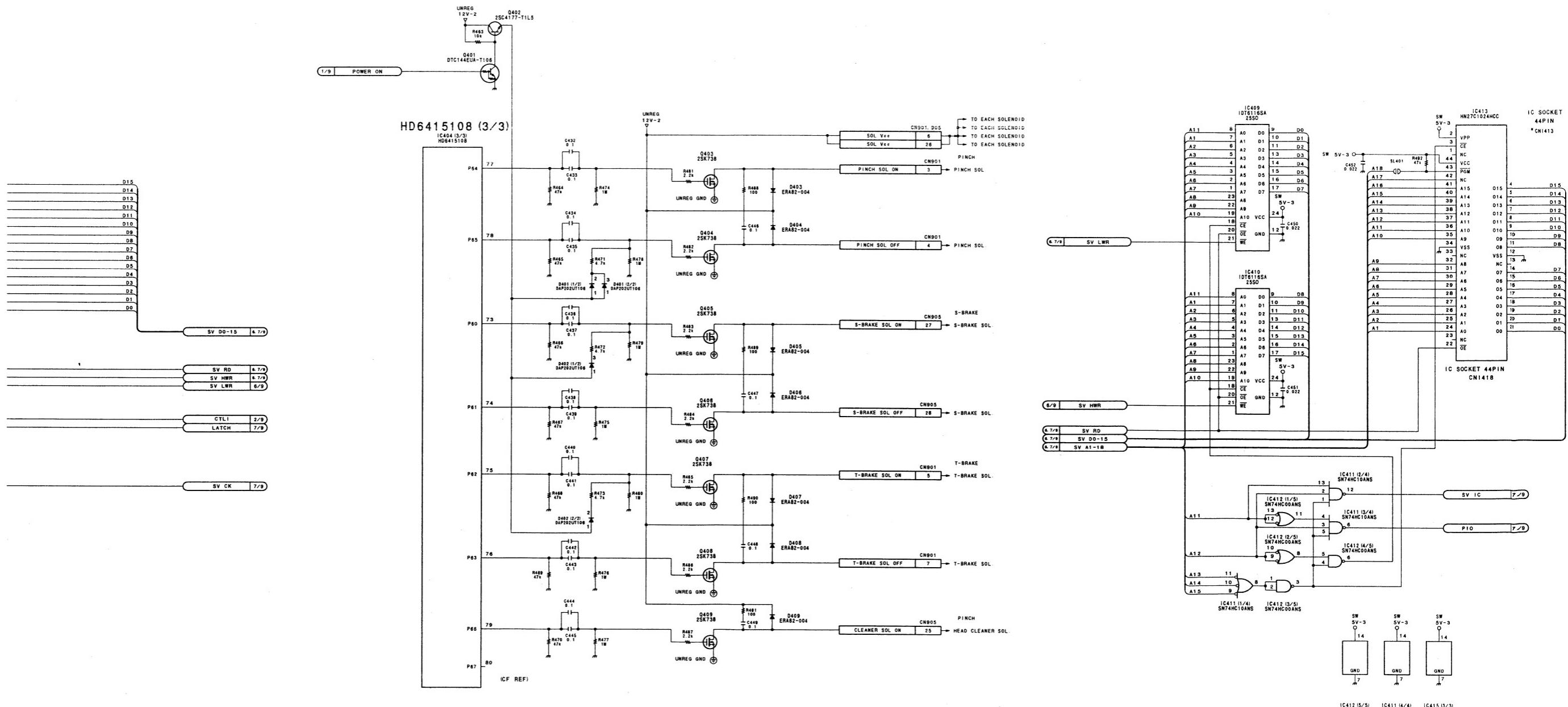
BOARD NO. 1-657-804-11  
LOT NO. 409-  
B-#DVW250-SST1-11



DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

1





SERVO & SYSTEM CONTROL, TIMECODE  
FULL ERASE & CHANNEL ERASE OSCILLATOR  
**SST-3 (6/9)**

BOARD NO. 1-657-804-11  
LOT NO. 409-  
B-VDVW250-SST1-11

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

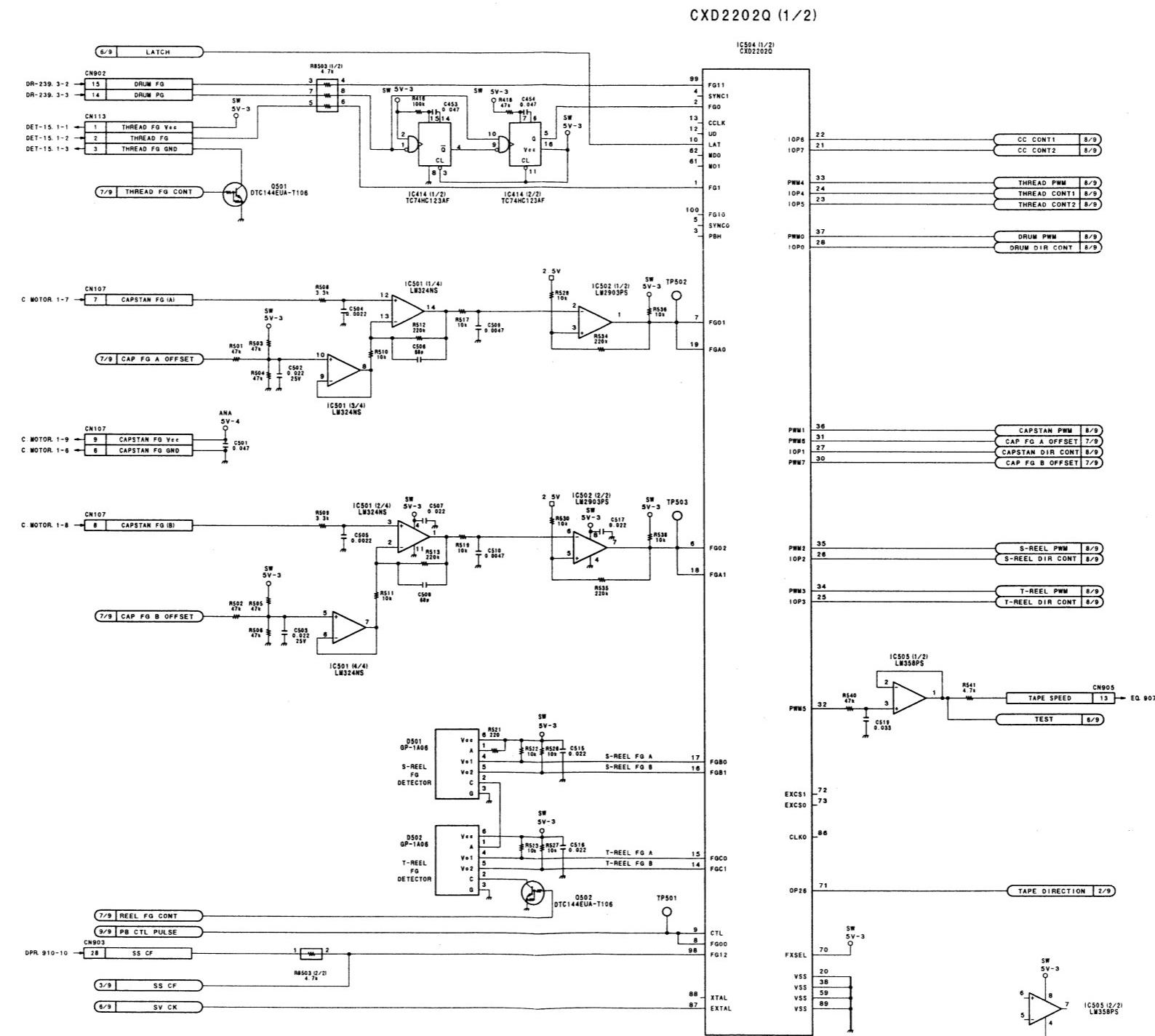
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A

B

C

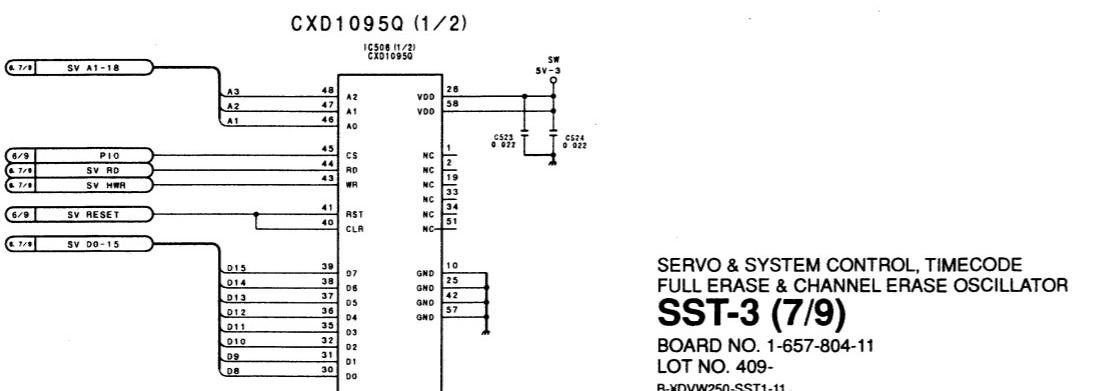
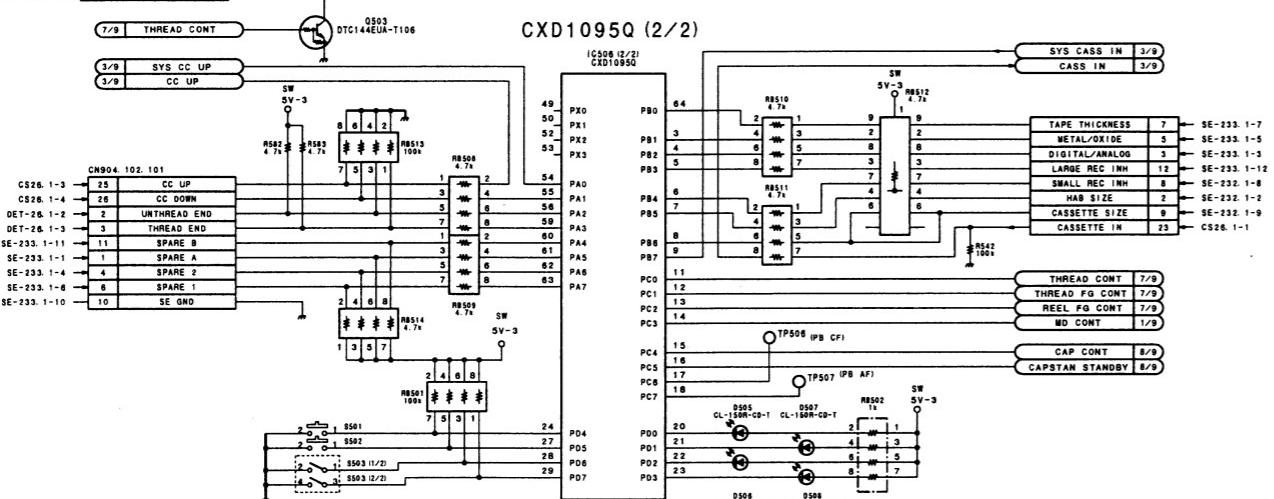
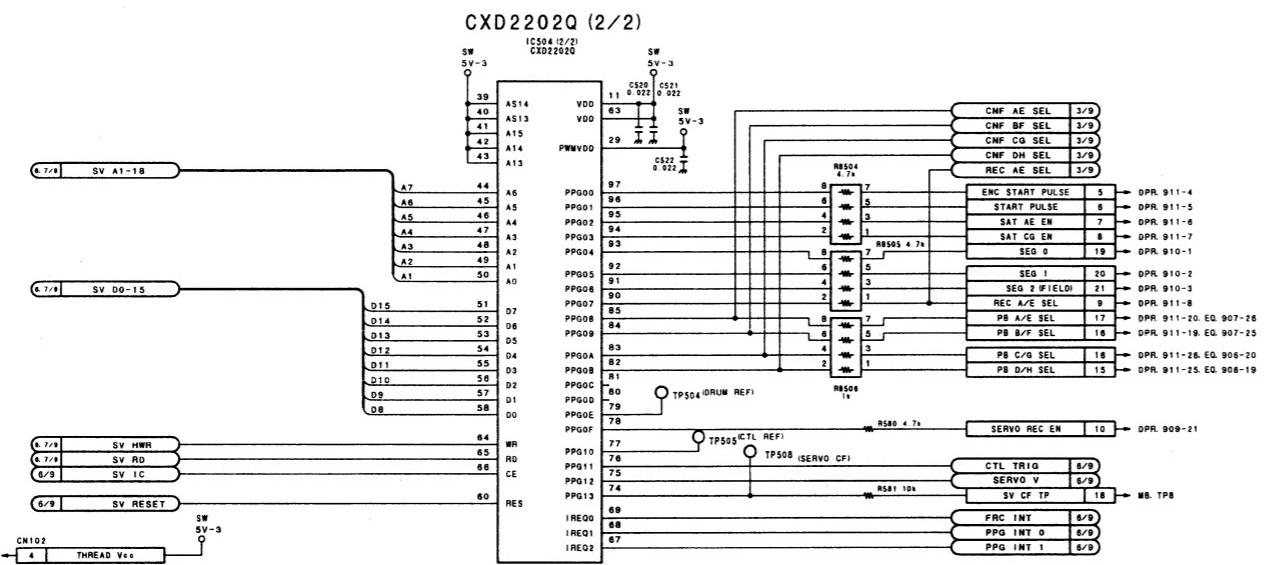
D

E

F

G

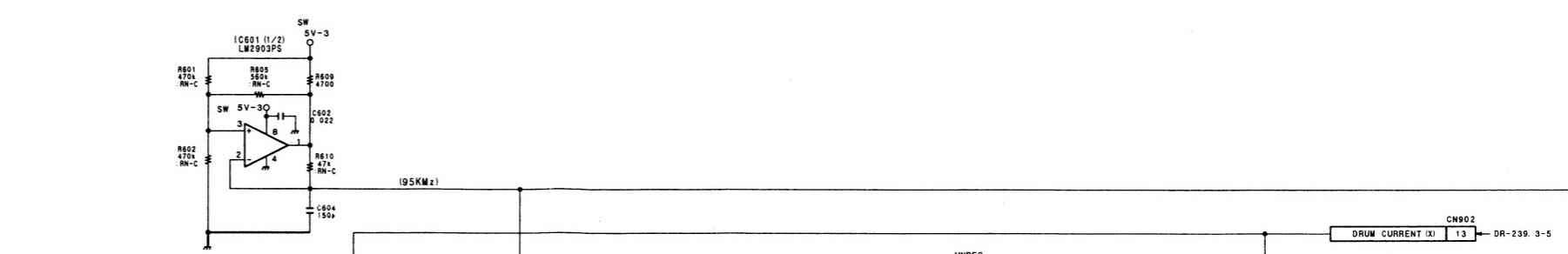
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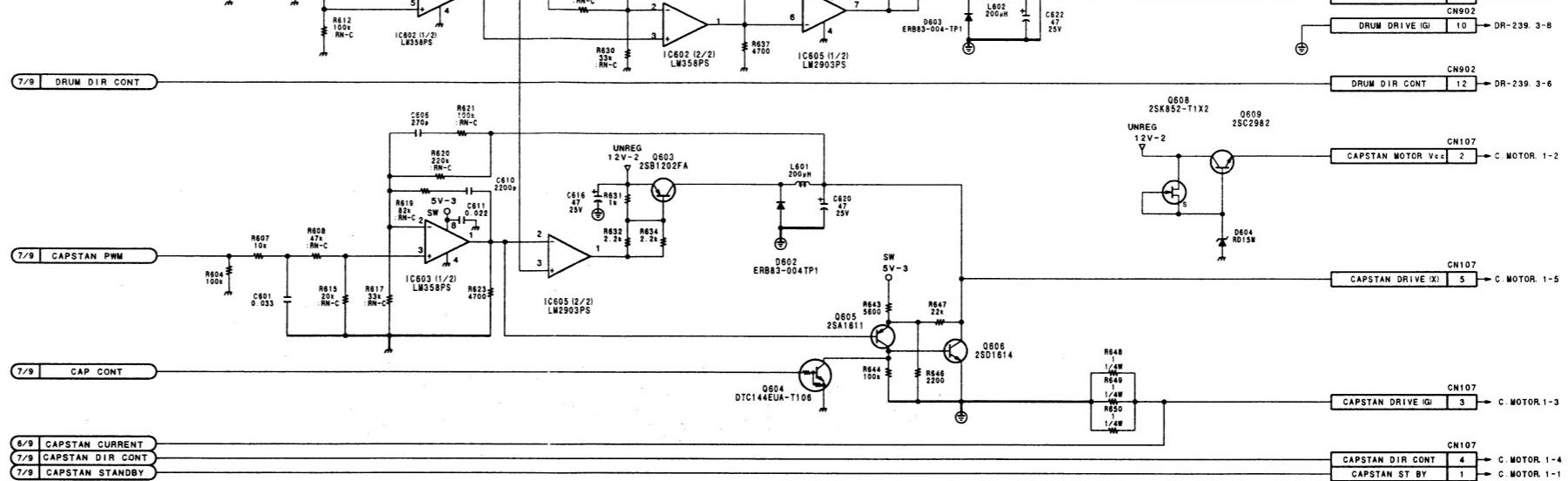
SST-3 (8/9) SST-3 (8/9)

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

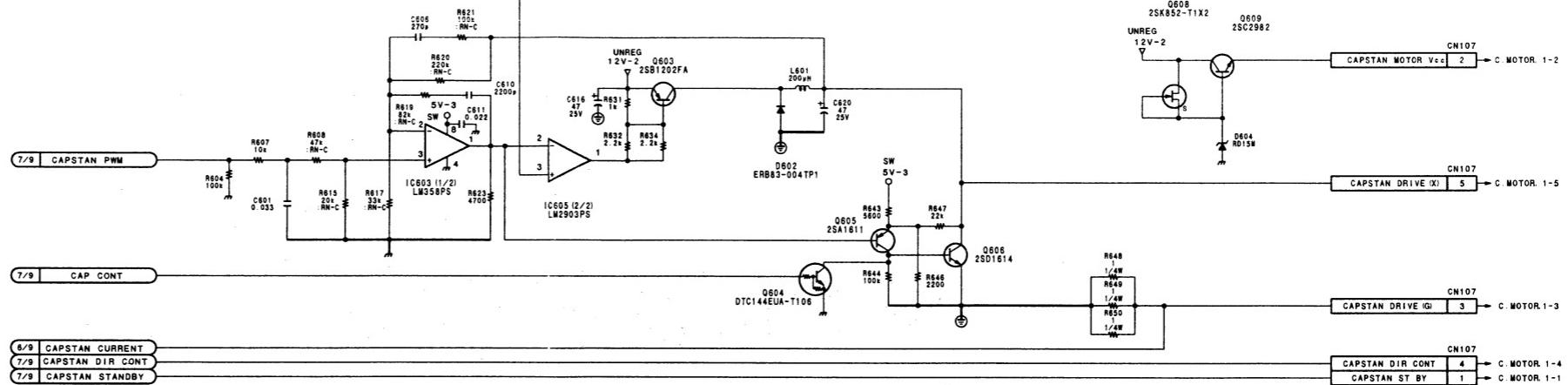
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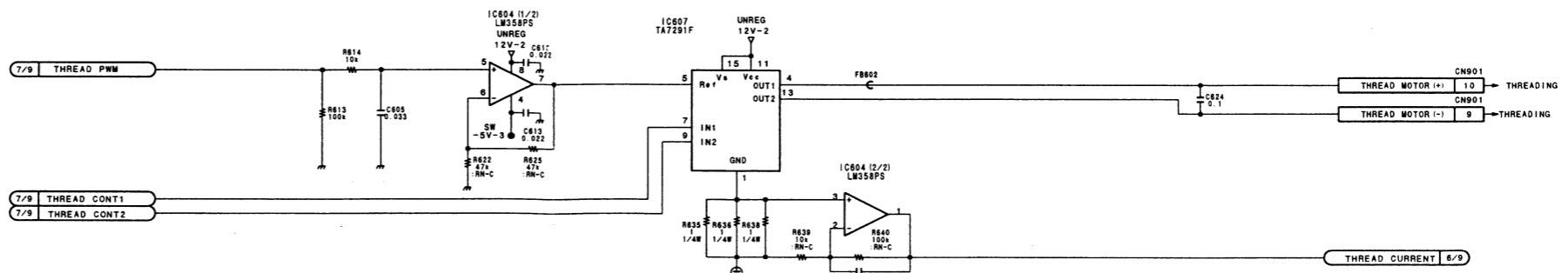
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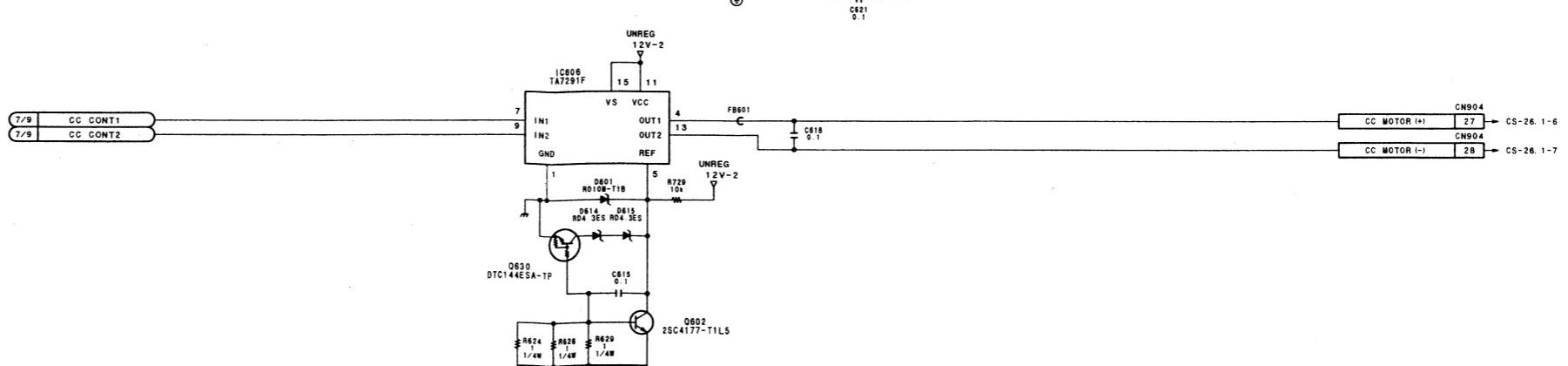
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4



5



3-90

3-90

DVW-250/250P

A

B

C

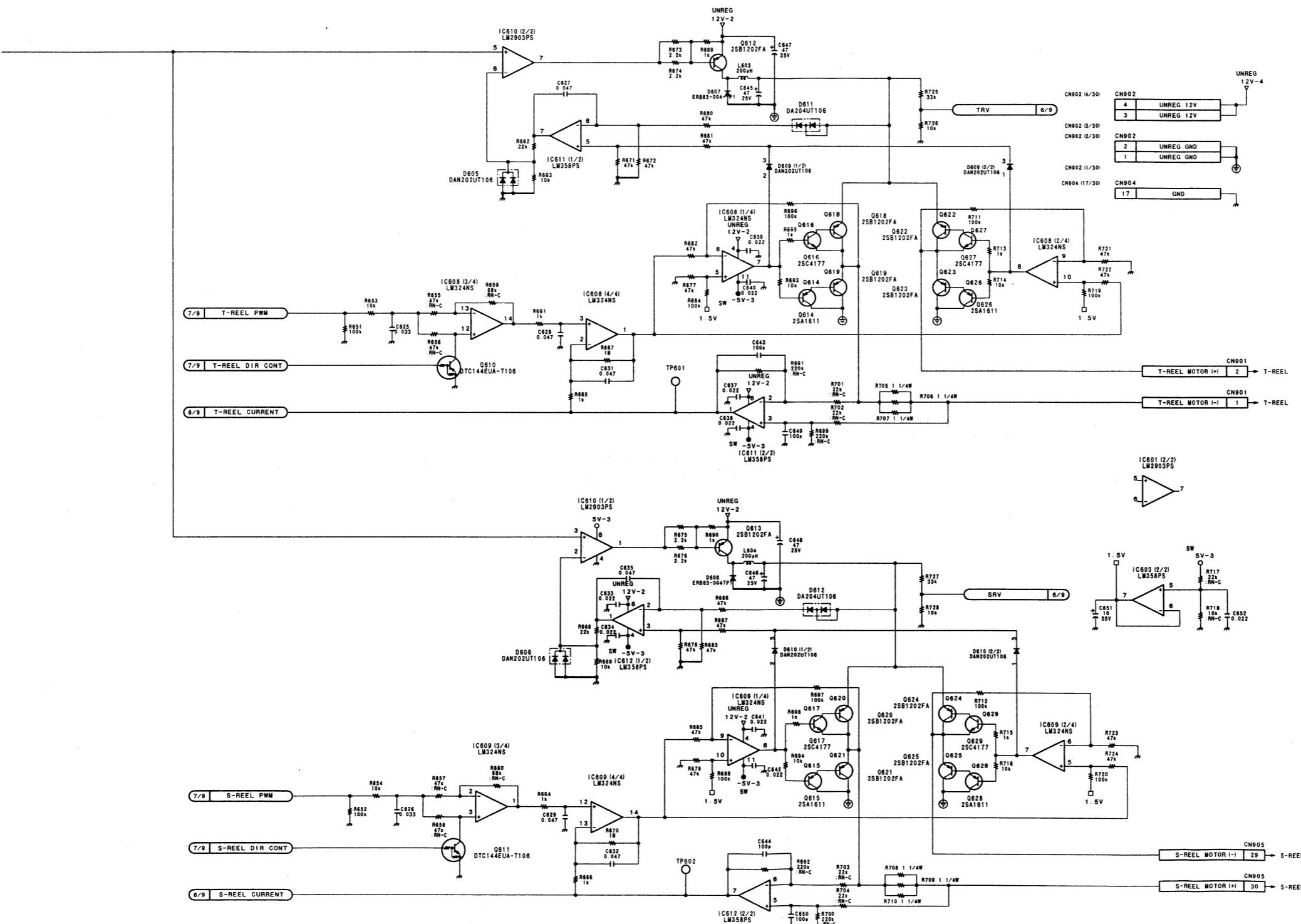
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F

G

H



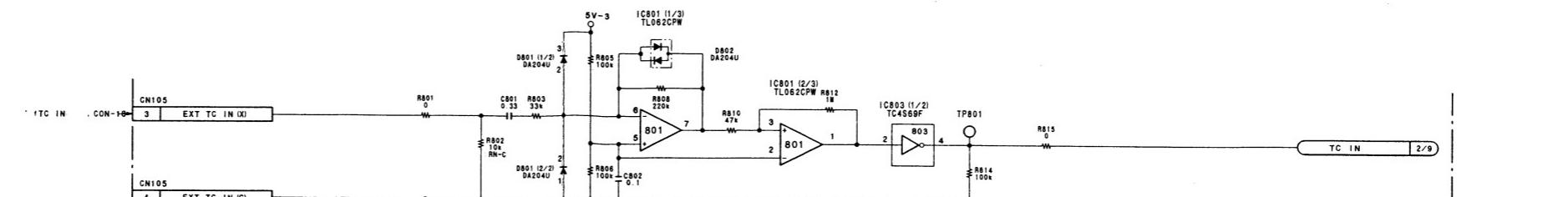
SERVO & SYSTEM CONTROL, TIMECODE  
FULL ERASE & CHANNEL ERASE OSCILLATOR  
**SST-3 (8/9)**

BOARD NO. 1-657-804-11  
LOT NO. 409-  
B-VDVW250-SST1-11

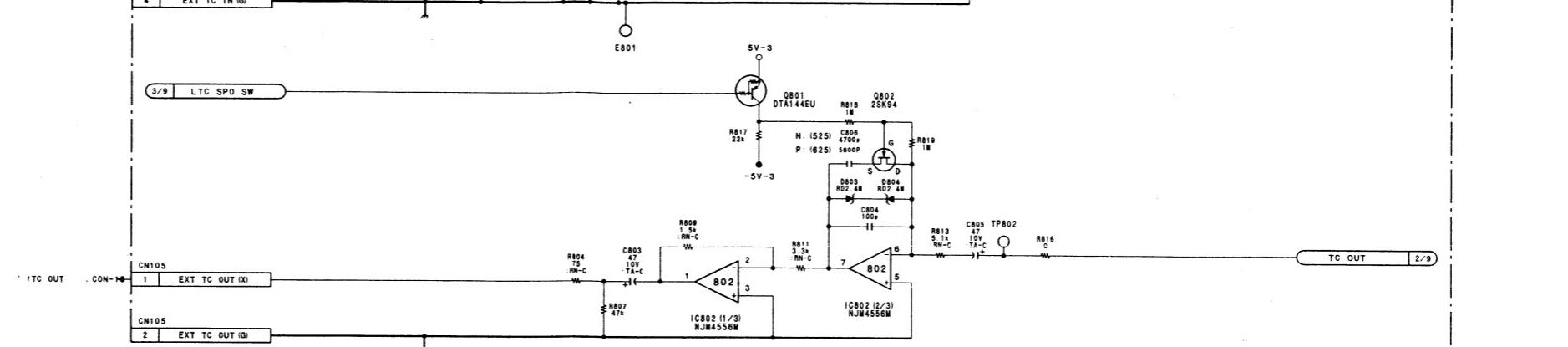
SST-3 (9/9) SST-3 (9/9)

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

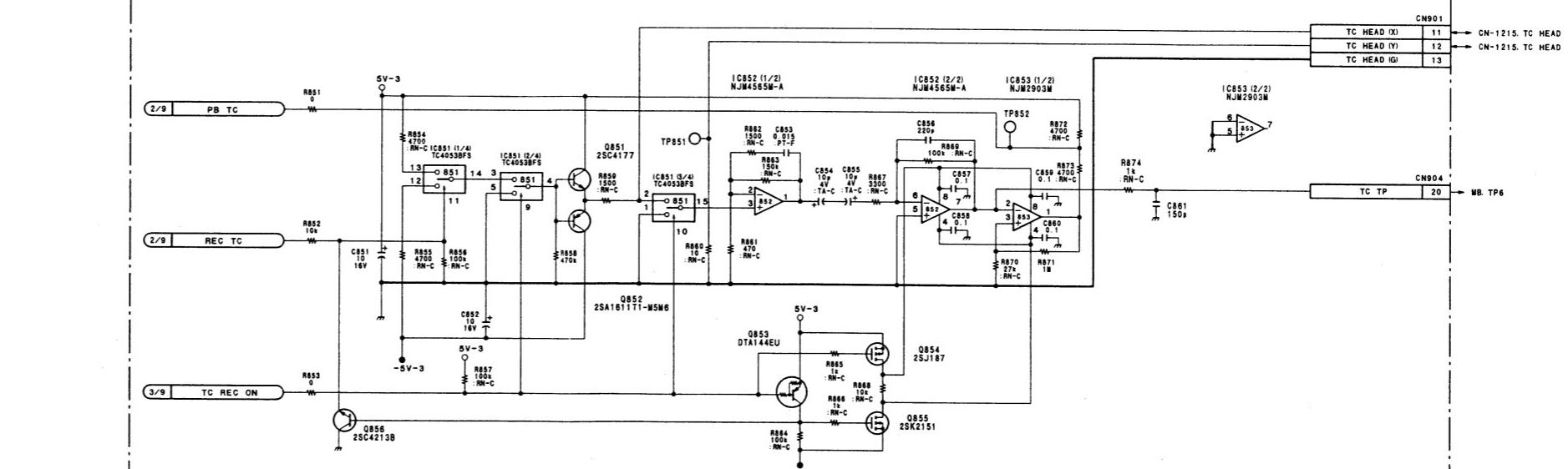
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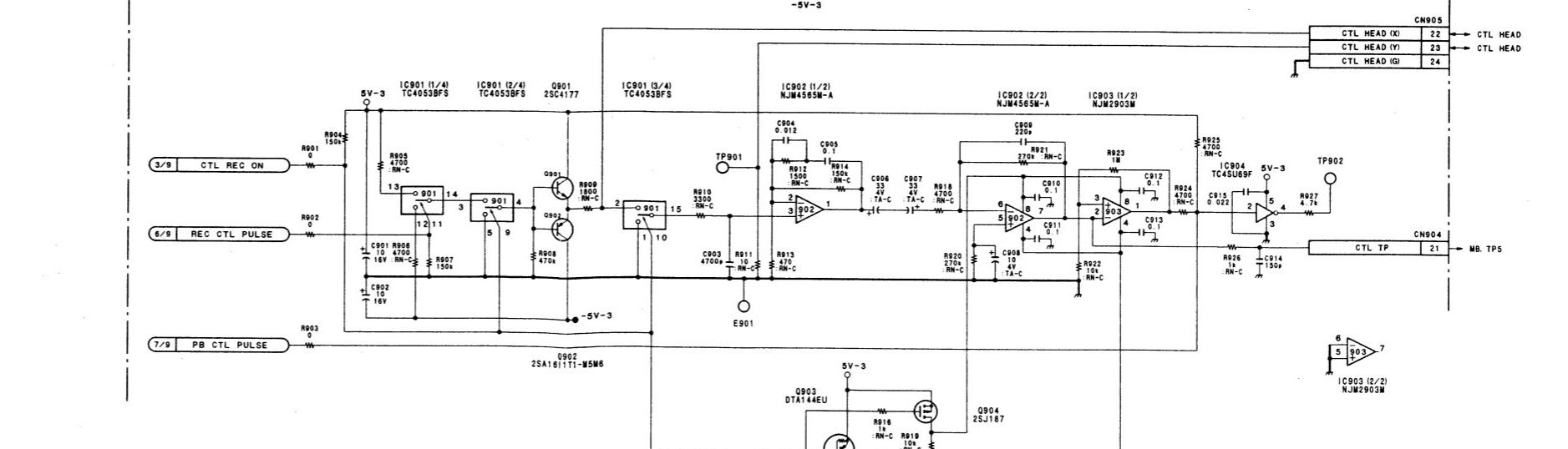
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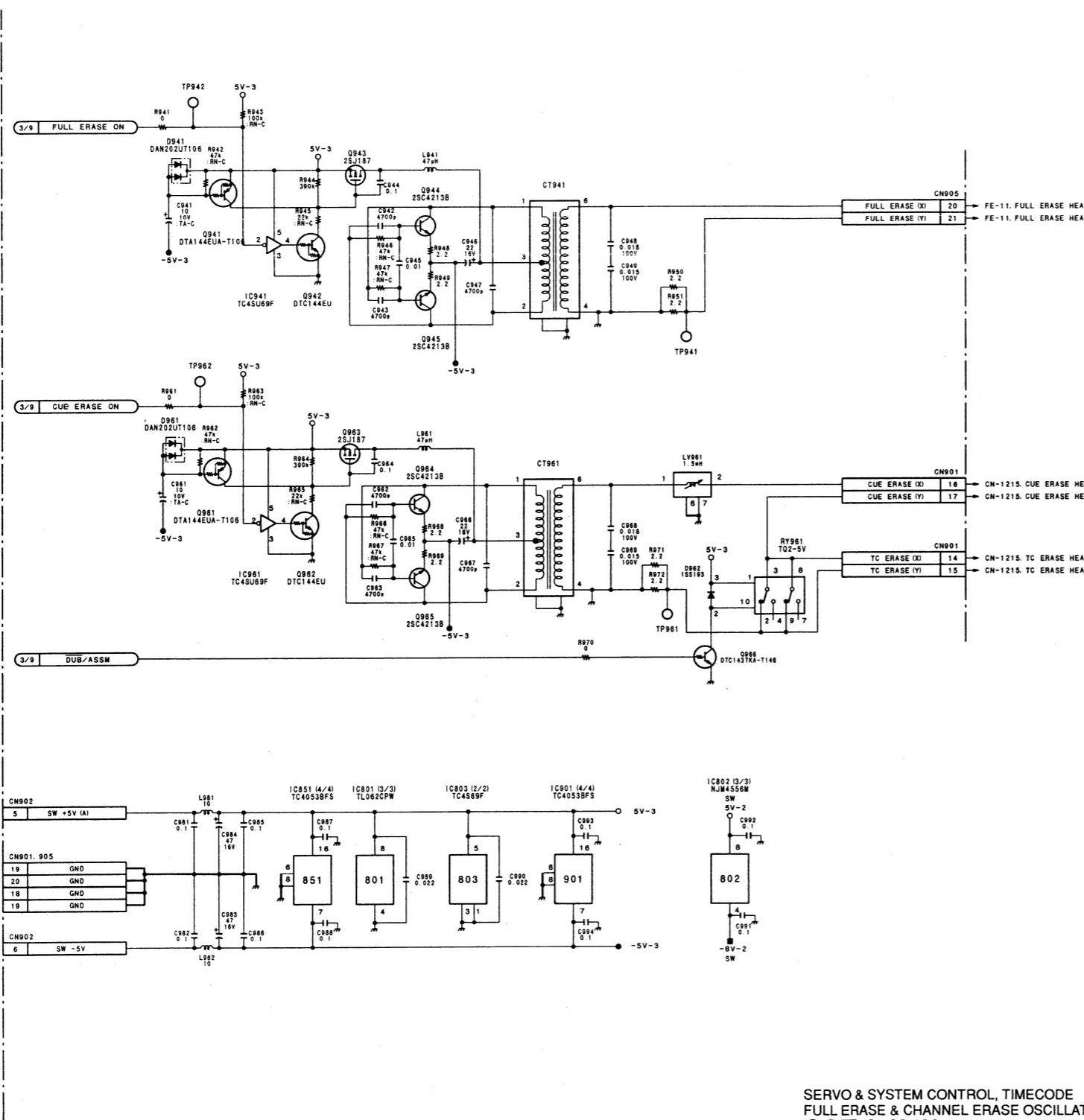
3



4



5



SERVO & SYSTEM CONTROL, TIMECODE  
FULL ERASE & CHANNEL ERASE OSCILLATOR  
**SST-3 (9/9)**  
BOARD NO. 1-657-804-11  
LOT NO. 409-  
B-VDVW250-SST1-11

**KY-315 KY-315**

DVV-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

KY-315 (1-657-807-11)

1

CN461 \*A3 S27 D1  
CN462 \*A3 S28 D3  
CN463 \*D1 S29 E4

D1 \*E4 \* : Soldering Side

D2 \*D3  
D3 \*E4  
D4 \*E4  
D5 \*C4  
D6 \*D2  
D7 \*C3  
D8 \*C3  
D9 \*D4  
D10 \*C4  
D11 \*C4  
D12 \*B4  
D13 \*B4  
D14 \*B4

2

D15 \*D4  
D16 \*D4  
D17 \*D3  
D18 \*D1  
D19 \*D2  
D20 \*D4  
D21 \*D4

D22 E4  
D23 \*E4  
D24 A1  
D25 B1  
D26 C3  
D27 C3  
D28 B1  
D29 C1  
D30 D1  
D31 C1  
D32 C1  
D33 A1  
D34 A3  
D35 B3  
D36 D1  
D37 C1  
D38 D3

3

IC1 \*C1  
IC2 \*B2  
IC3 \*C2  
IC4 \*B2

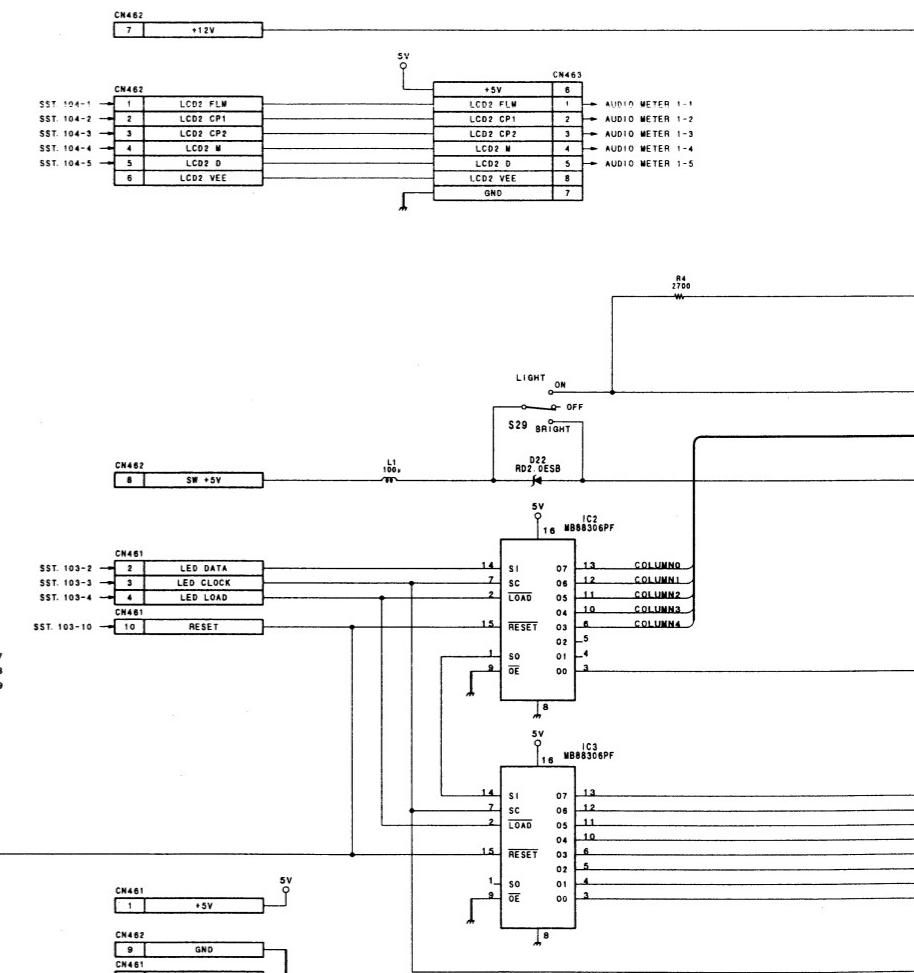
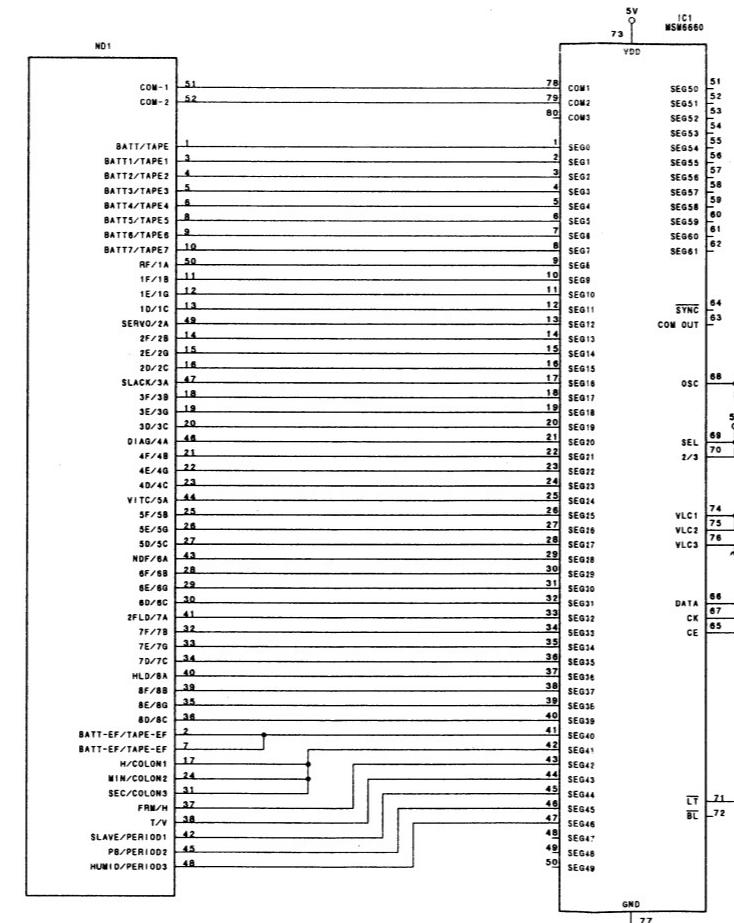
L1 A4

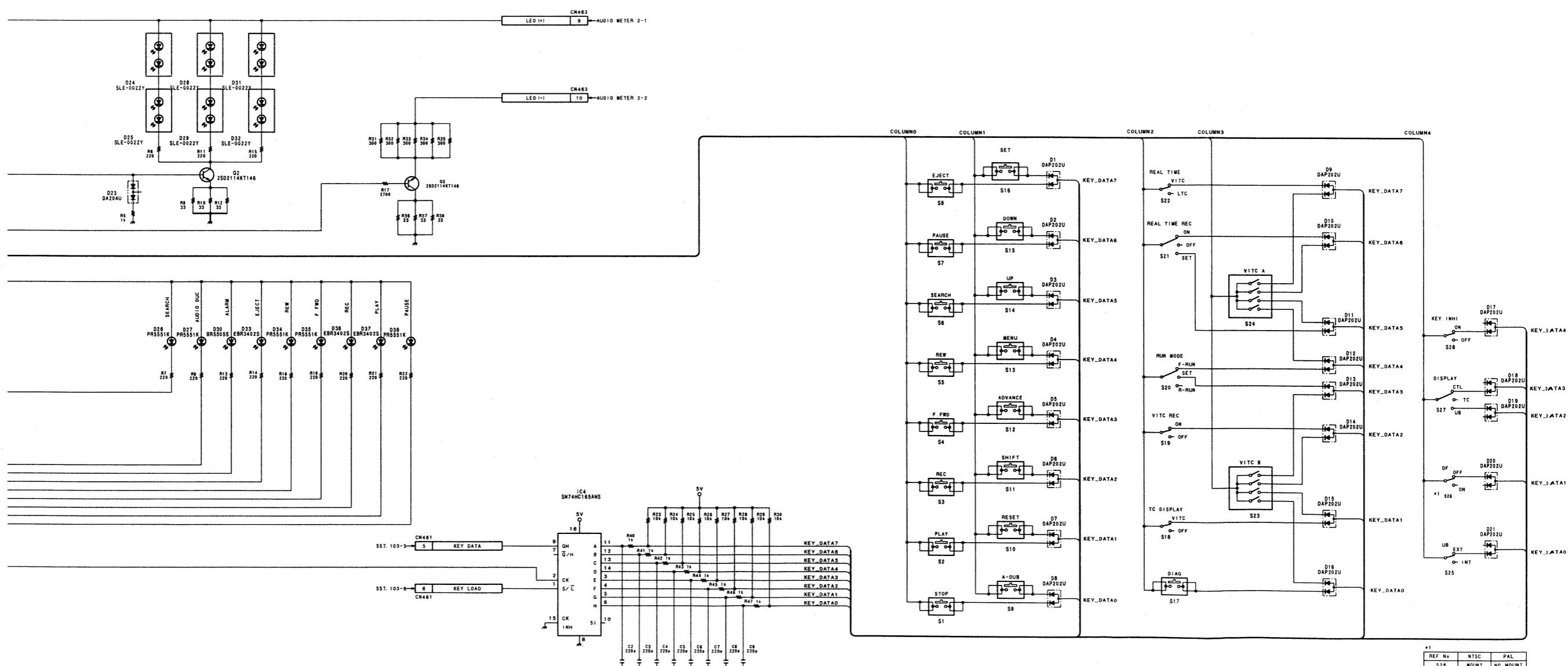
ND1 C1

4

Q2 \*E4  
Q3 \*C4

S1 B2  
S2 C2  
S3 D2  
S4 B3  
S5 A3  
S6 C3  
S7 D3  
S8 A2  
S9 C3  
S10 D1  
S11 C4  
S12 C4  
S13 E4  
S14 E4  
S15 E4  
S16 E4  
S17 D4  
S18 B4  
S19 B4  
S20 B4  
S21 C4  
S22 D4  
S23 A4  
S24 A4  
S25 D4  
S26 D4





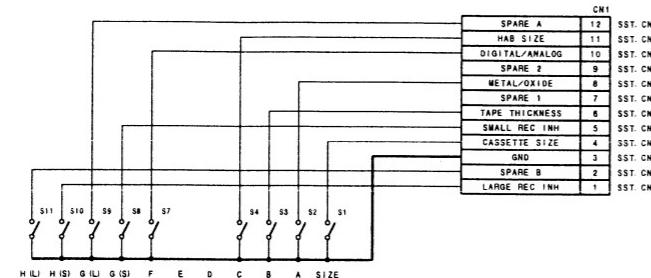
PANEL SWITCHES  
**KY-315**

BOARD NO. 1-657-80 7-11  
LOT NO. 409-  
B-VDVW250-KY315-11

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

SE-233 (1-657-800-11)

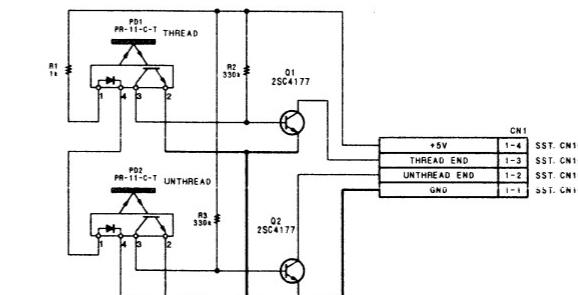
1  
CN1 A1  
S1 A1  
S2 A1  
S3 A1  
S4 A1  
S7 A1  
S8 A1  
S9 A1  
S10 A1  
S11 A1



DET-26 (1-657-801-11,-12)

CN1 \*A1  
PD1 A1  
PD2 A1  
Q1 A1  
Q2 A1

\* : Soldering Side



SENSOR (CASSETTE CODING)  
**SE-233**

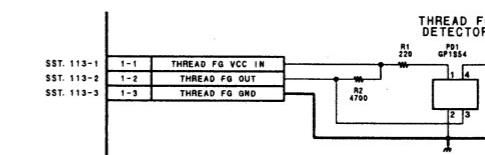
BOARD NO. 1-657-800-11  
LOT NO. 409-  
B-VDW250-SE233-11

3

SENSOR (THREAD/UNTHREAD)  
**DET-26**

BOARD NO. 1-657-801-11,-12  
LOT NO. 409-  
B-VDW250-DET26-11

4



CASSETTE IN DETECTOR  
**DET-15**

BOARD NO. 1-638-705-11  
LOT NO. 409-  
B-VDW250-DET15-S/M

5

A

B

C

3-96

3-96

D

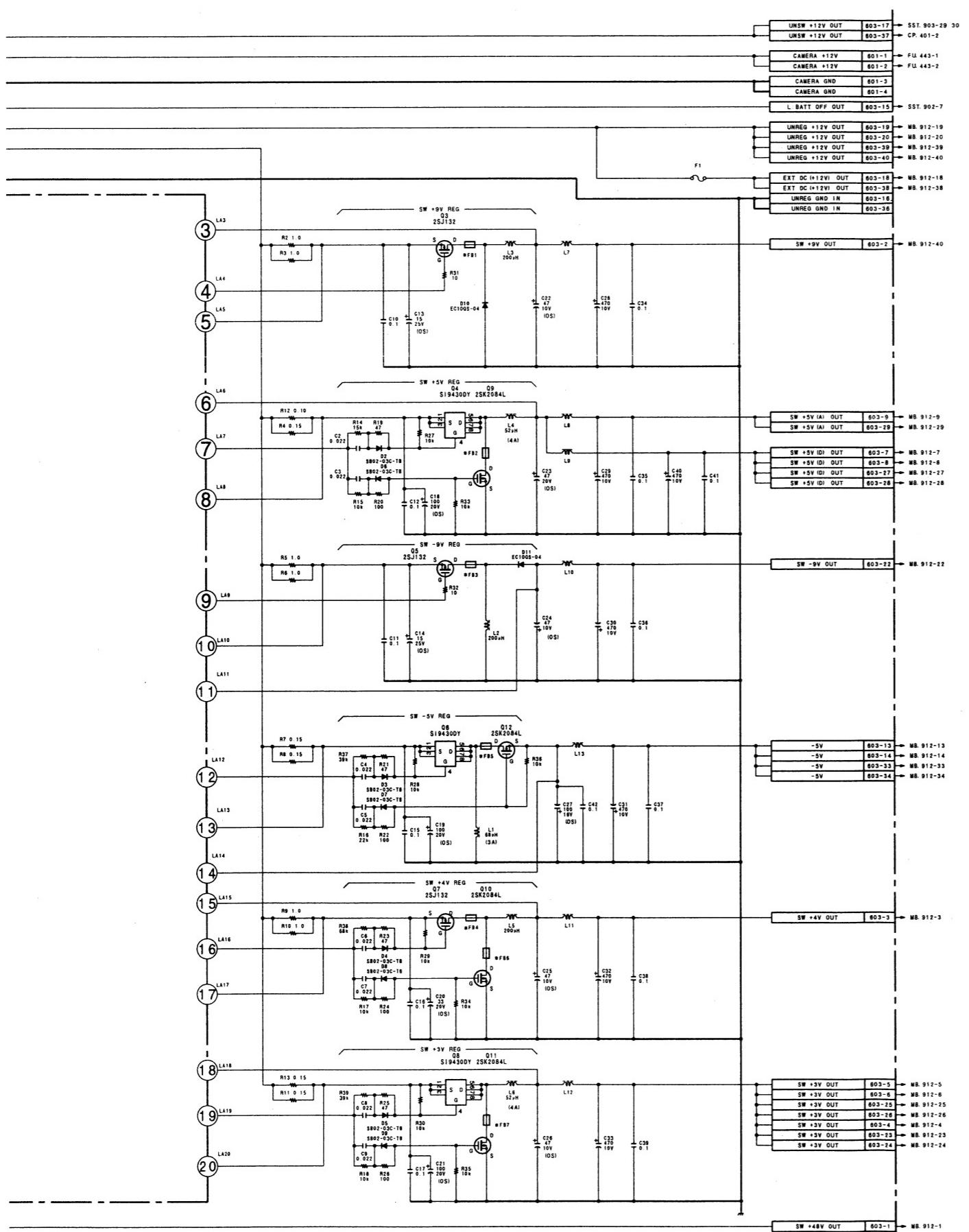
E

F

G

DVW-250/250P

H



**DC-DC CONVERTER  
PSW-31A**  
BOARD NO. 1-657-796-11  
LOT NO. 409-

B-VDVW250-PSW31A-11

# PSW-31B PSW-31B

DVV-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

PSW-31B (1-657-797-11)

D101 D1  
D102 D2

IC101 D2  
IC102 D1  
IC103 B1  
IC104 C1  
IC105 A1

Q101 D1  
Q102 D1  
Q103 D1  
Q104 D1

Q105 B1  
Q106 B2

Q107 B1  
Q108 C2

Q109 A1  
Q110 A2

Q111 A2  
Q112 C2

Q113 A2  
Q114 A2

Q115 B2  
Q116 A2

Q117 B2  
Q118 B2

Q119 C2  
Q120 C2

Q121 A2  
Q122 A2

Q123 B2  
Q124 B2

Q125 B2  
Q126 B2

Q127 A2  
Q128 A2

Q129 B2  
Q130 C2

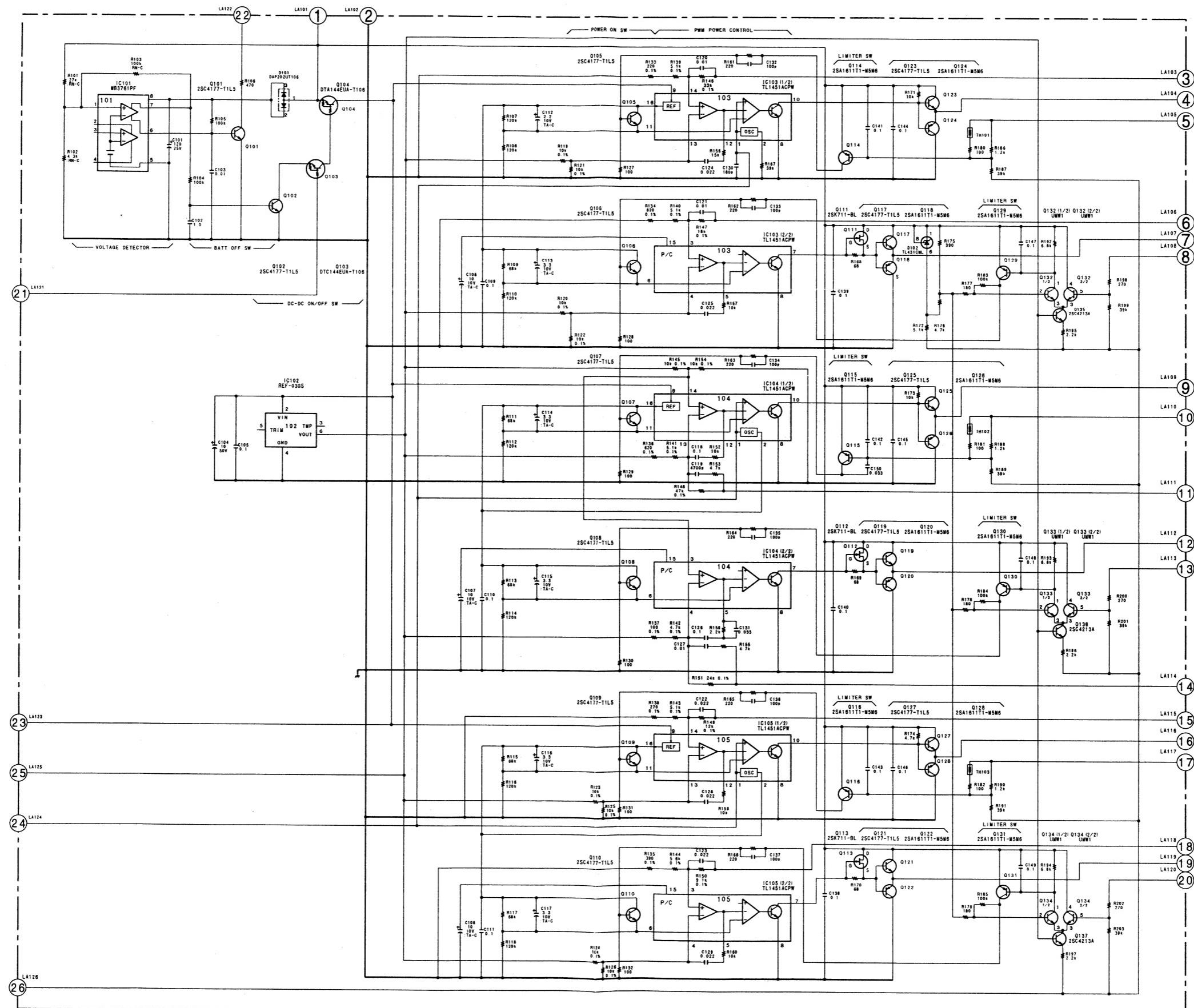
Q131 A2  
Q132 B2

Q133 C2  
Q134 A2

Q135 B2  
Q136 C2

Q137 A2  
TH101 A2  
TH102 B2  
TH103 A2

\* : Soldering Side



3-100

3-100

A

B

C

D

E

F

G

H

**DC-DC CONVERTER  
PSW-31B**

BOARD NO. 1-657-797-11  
LOT NO. 409-  
BVW250-PSW31B-11

DVW-250/250P

**PSW-31C PSW-31C**

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

PSW-31C (1-657-798-11)

D301 C1

IC301 \*A2

L301 B1

Q301 \*A2

Q302 \*B2

Q303 \*B2

Q304 \*B1

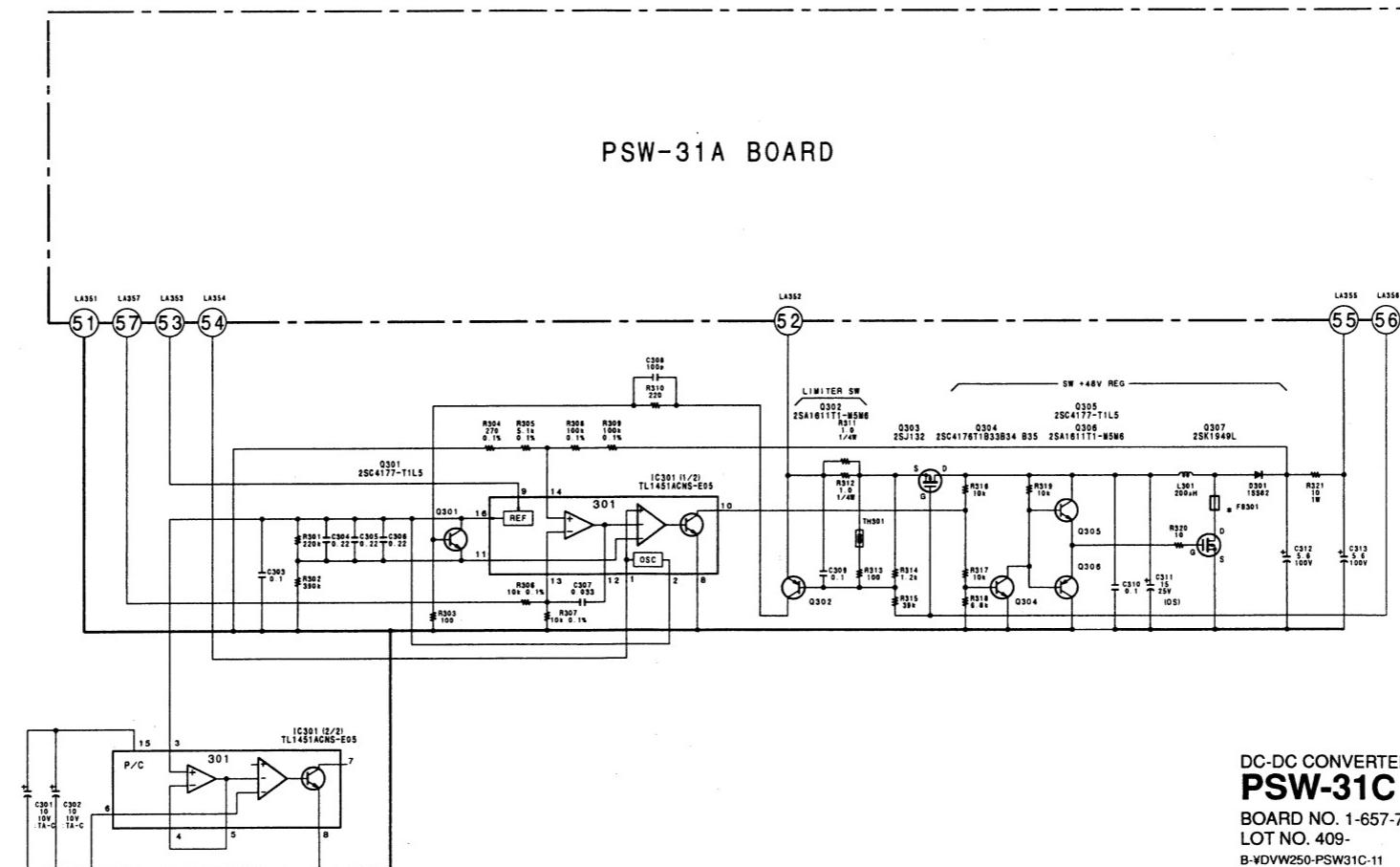
Q305 \*B1

Q306 \*B1

Q307 C1

TH301 \*B2

\* : Soldering Side



DC-DC CONVERTER  
**PSW-31C**  
BOARD NO. 1-657-798-11  
LOT NO. 409-  
B-DVW250-PSW31C-11

DVW-250/250P

A

B

C

3-101

3-101

E

F

G

H

FU-63, DC-85      FU-63, DC-85

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

FU-63 (1-657-813-11)

1  
CN441 A3  
CN442 A3  
CN443 A1  
CN444 A1  
CN445 A1  
CN446 A1

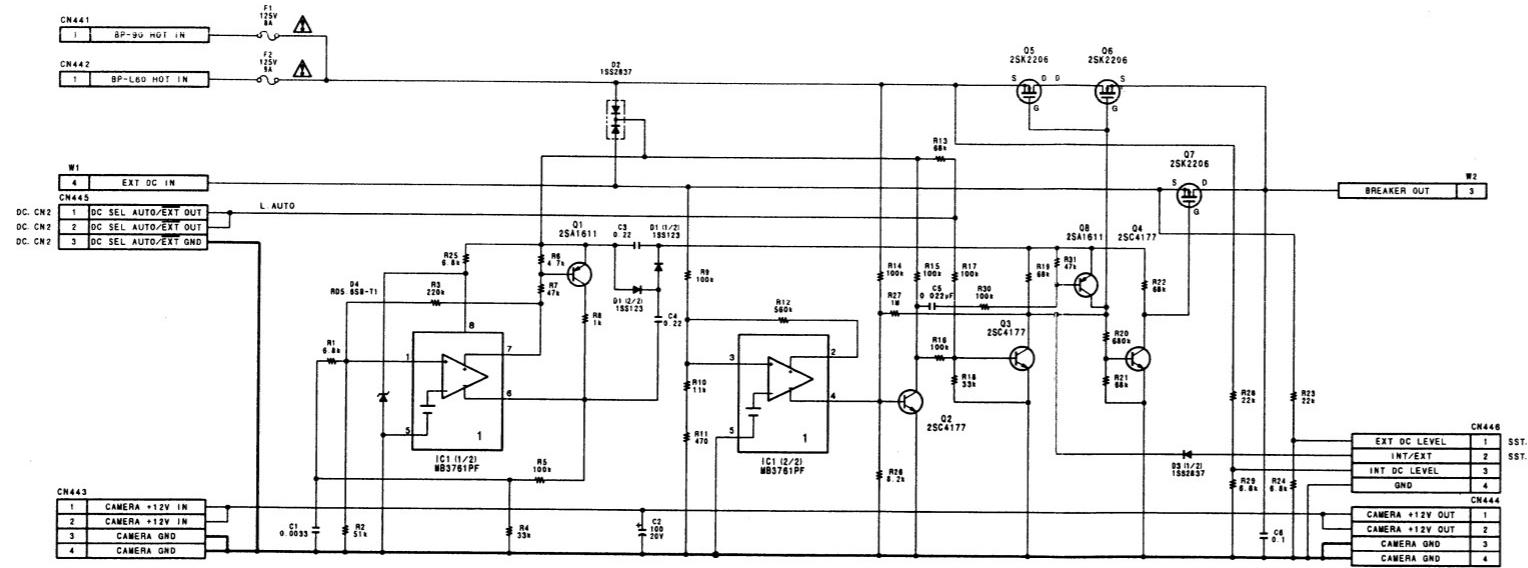
D1 \*A1  
D2 A2  
D3 \*A1  
D4 \*A2

F1 \*A3  
F2 \*A3

IC1 A2

2  
Q1 \*A2  
Q2 A2  
Q3 \*A2  
Q4 \*A1  
Q5 A3  
Q6 A3  
Q7 A2  
Q8 \*A1

\* : Soldering Side





MB-601 (1-657-803-11)

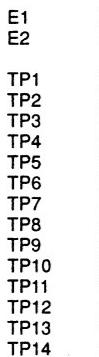
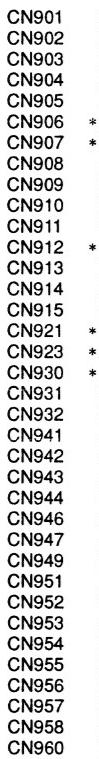
1

2

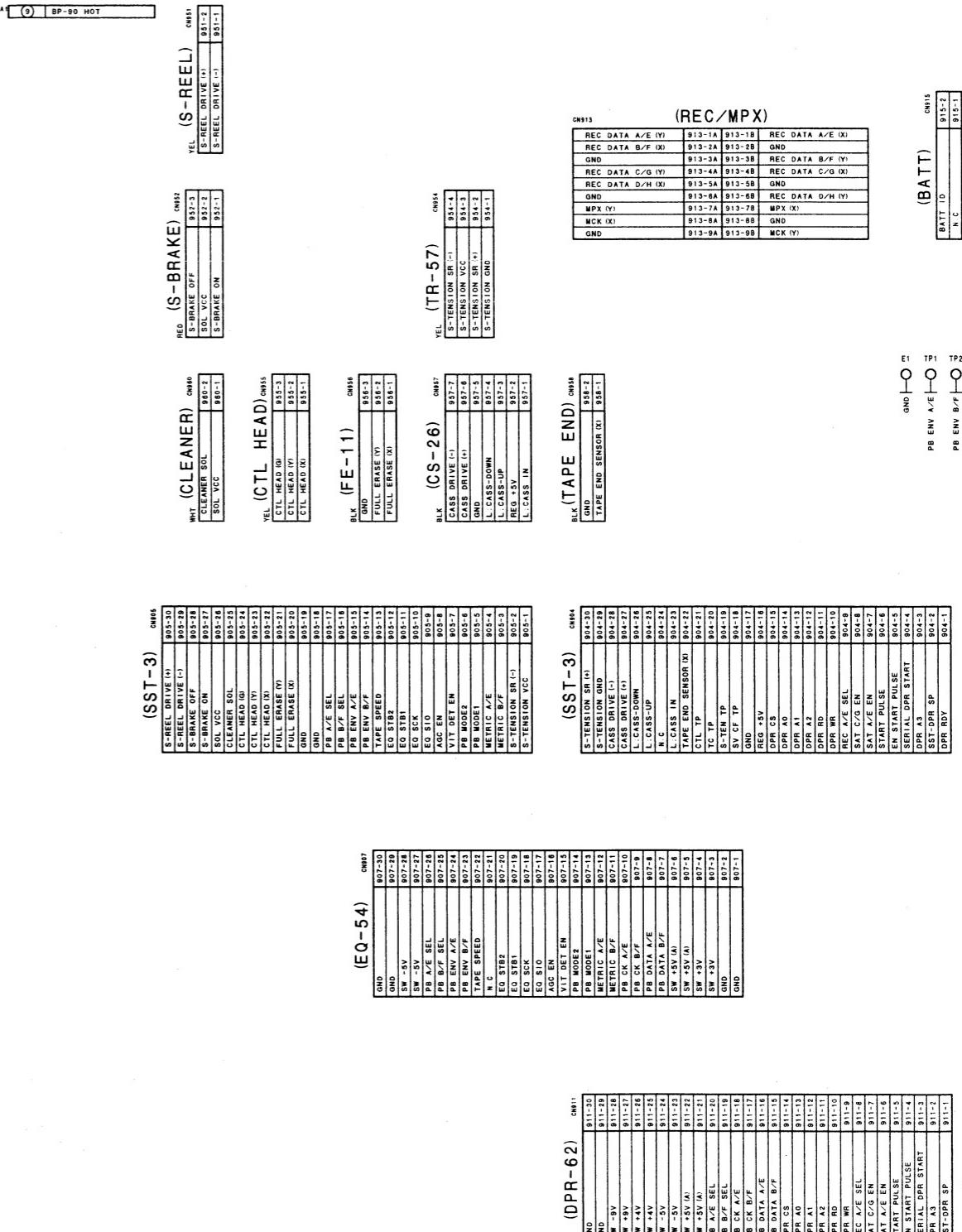
3

4

5

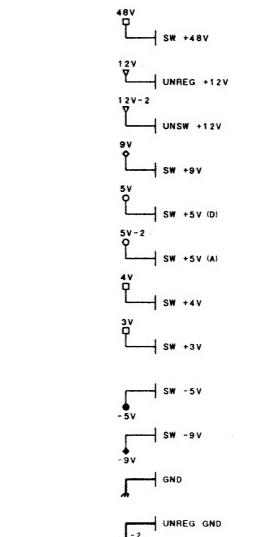
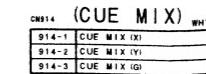
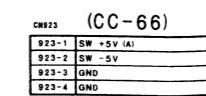
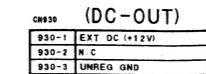
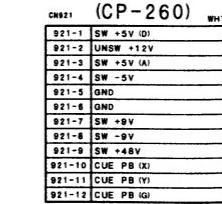
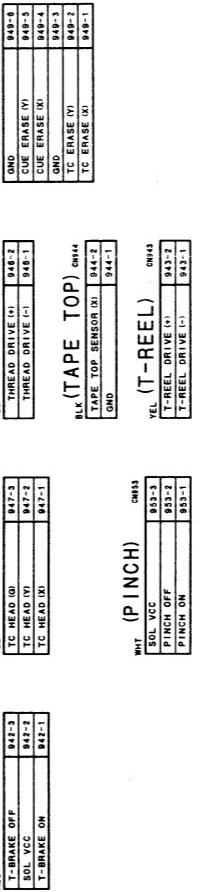
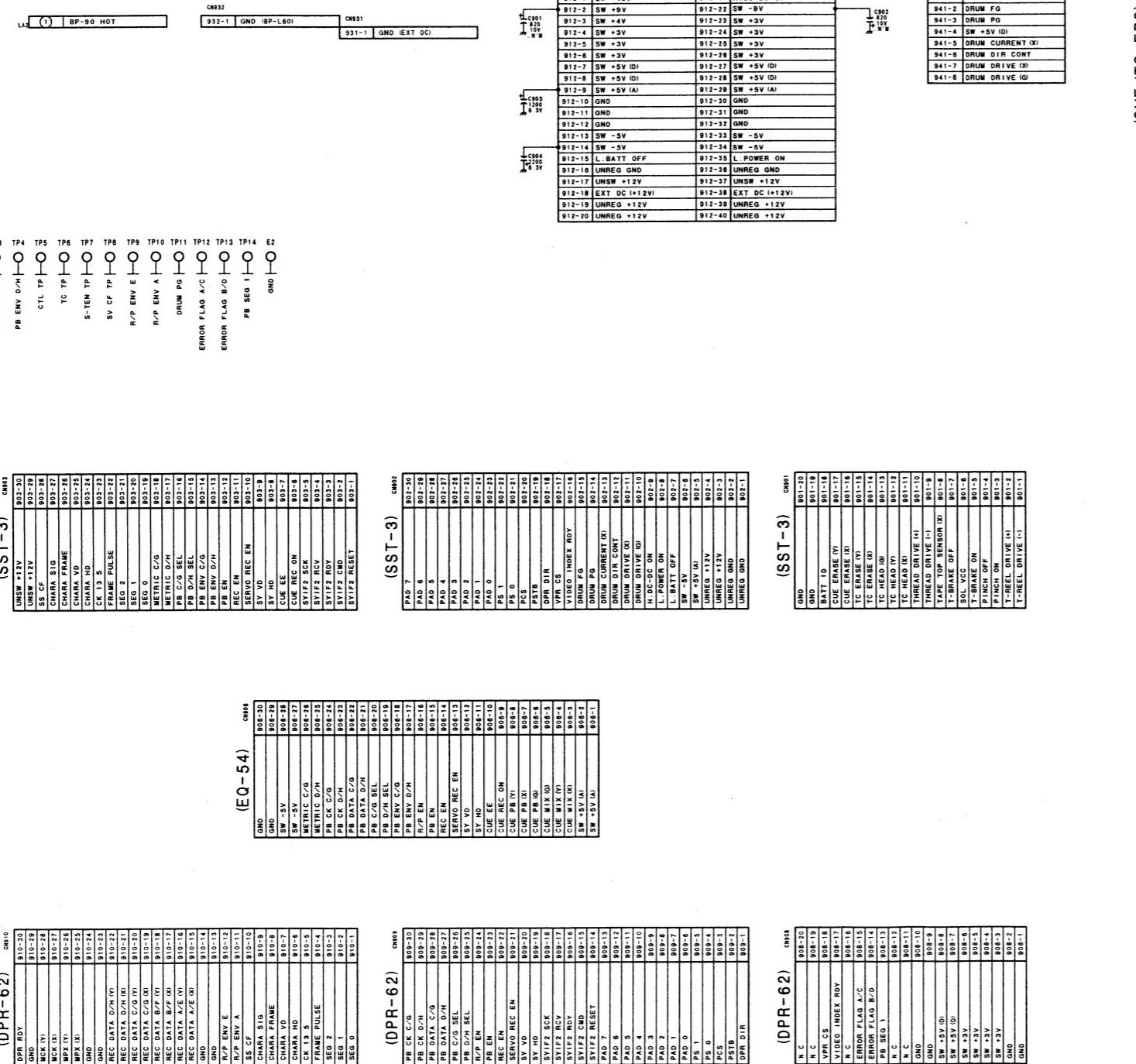


\* : Soldering Side



**MB-601**

**MB-601**



**MOTHER BOARD  
MB-601**  
BOARD NO. 1-657-803-11  
LOT NO. 409-  
B-#DVW250-MB601-11

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

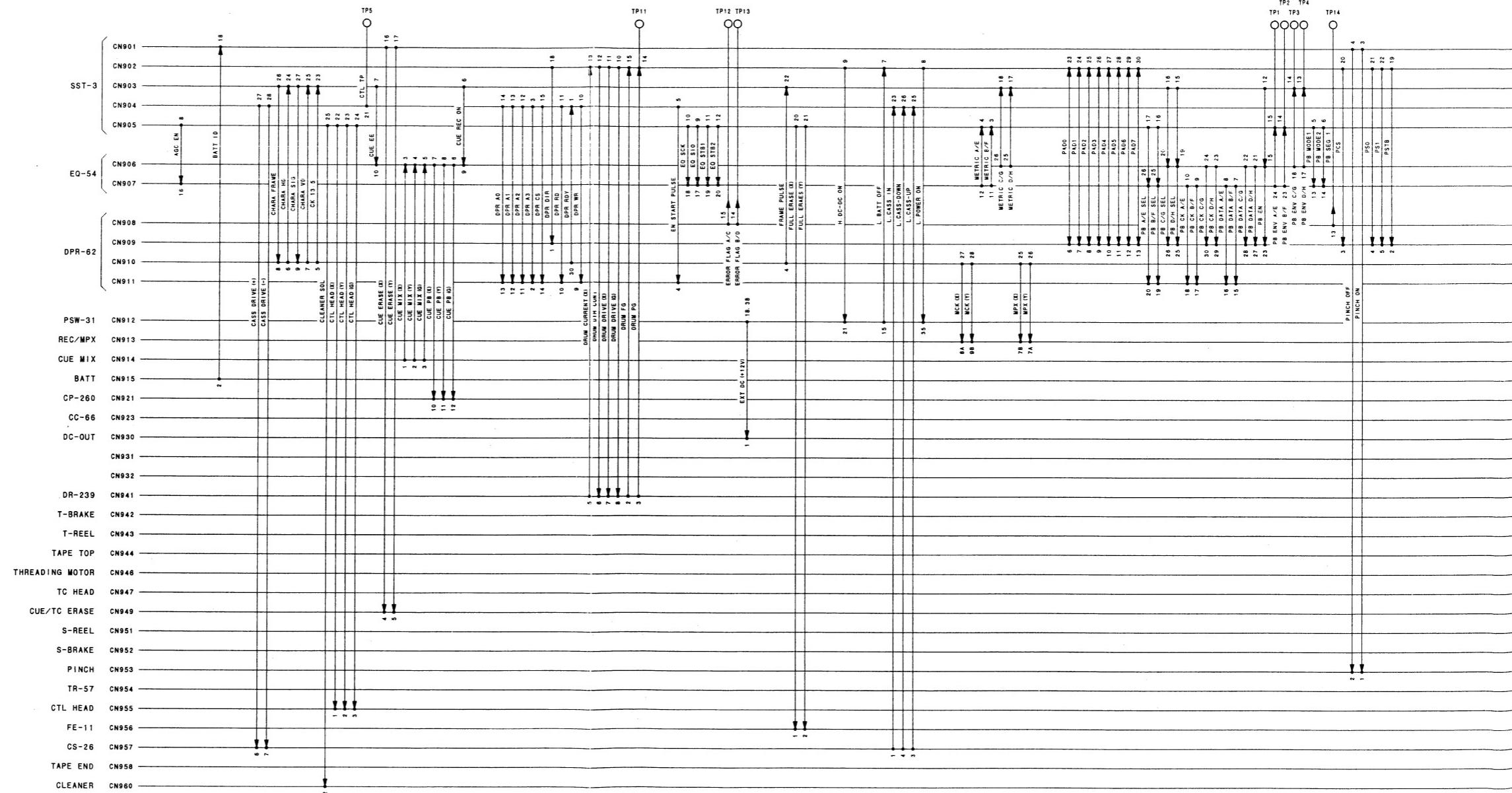
1

2

3

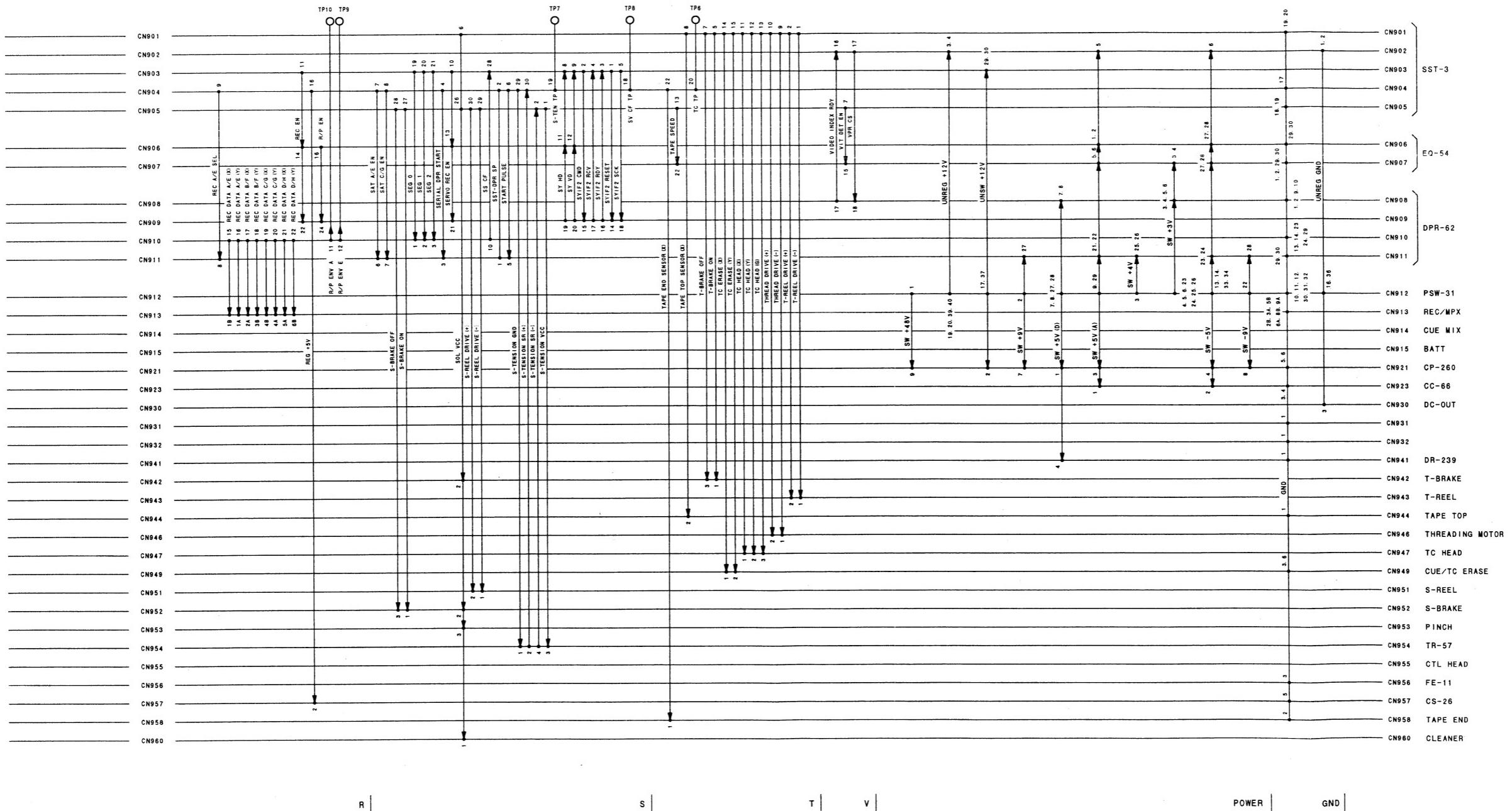
4

5



INDEX A B C D E F G H I J K L M

**MB-601**



**MOTHER BOARD  
MB-601**  
BOARD NO. 1-657-803-1  
LOT NO. 409-  
B-YDVW250-MB601-KESSEN-11

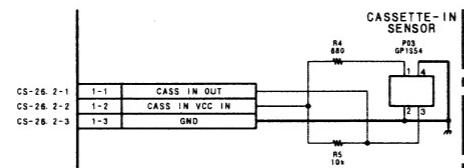


DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

TR-57 (1-638-710-11)

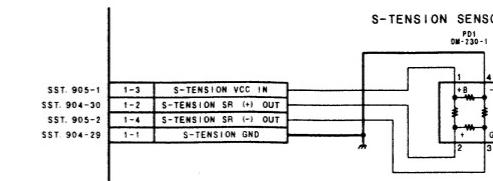
PD1 \*A1

\* : Soldering Side



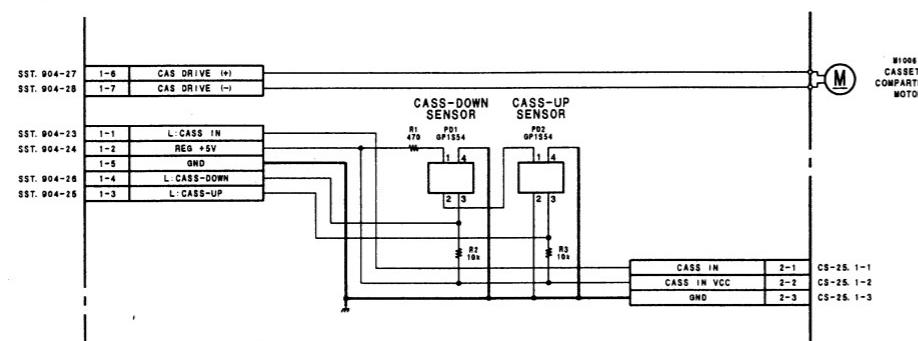
CASSETTE UP/DOWN DETECTOR  
**CS-25**

BOARD NO. 1-638-701-12  
LOT NO. 409-  
B-VDVW250-CS25-S/M



S-TENSION DETECTOR  
**TR-57**

BOARD NO. 1-638-710-11  
LOT NO. 409-  
B-VDVW250-TR57-S/M



CASSETTE UP/DOWN DETECTOR  
**CS-26**

BOARD NO. 1-638-702-11  
LOT NO. 409-  
B-VDVW250-CS26-S/M

**PSW-31A**      **PSW-31A**

DVW-250 (J)  
DVW-250 (UC)  
DVW-250P (SY)

PSW-31A (1-657-796-11)

1  
CN601 A2  
CN602 A2  
CN603 F1

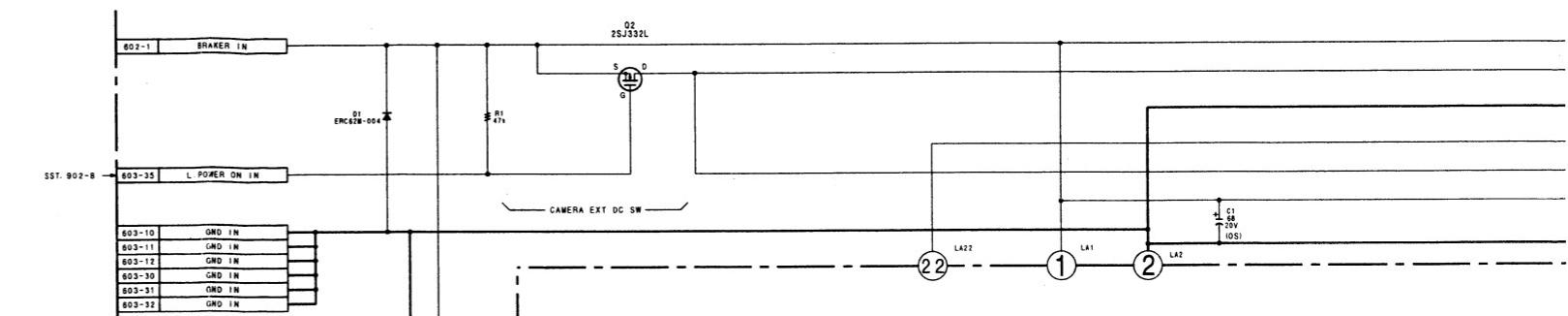
D1 A1  
D2 \*D2  
D3 \*A1  
D4 \*G2  
D5 \*F2  
D6 \*D2  
D7 \*B2  
D8 \*F3  
D9 \*F2  
D10 \*D2  
D11 \*C2

F1 D1

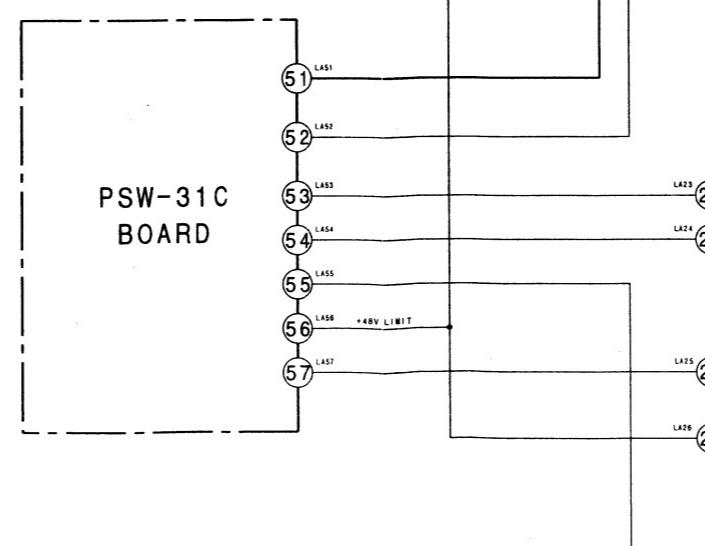
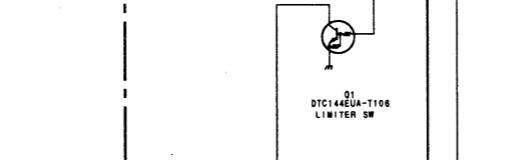
2  
L1 A2  
L2 C3  
L3 E3  
L4 D2  
L5 F3  
L6 F2  
L7 E2  
L8 C1  
L9 E1  
L10 C2  
L11 G2  
L12 F2  
L13 B1

3  
Q1 \*B2  
Q2 B1  
Q3 E2  
Q4 \*D3  
Q5 C2  
Q6 \*B2  
Q7 F2  
Q8 \*F3  
Q9 D2  
Q10 F2  
Q11 F2  
Q12 B2

\* : Soldering Side



**PSW-31B BOARD**



## Section 4

### Semiconductor Pin Assignments

ここに記載されている半導体は、それぞれの機能を等価的に表したものです。なお、互換性のない型名を併記していることがありますので、部品を交換するときは、Spare Partsの章を参照してください。

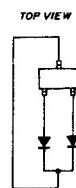
等価回路は I C メーカーのデータブックに従いました。

Semiconductors of which functions are equivalent are described here. For parts replacement, refer to the section of Spare Parts in this manual. The circuit diagram of each IC is obtained from the IC data book published by the manufacturer.

<b>Diode .....</b>	<b>PAGE</b>	2SD1328 .....	4-2	CXD2202Q .....	4-13	NJM2904M .....	4-48	TC74VHC00F .....	4-52
1SS119 .....	4-2	2SD1621 .....	4-2	CXD2302Q .....	4-11	NJM3403AM .....	4-48	TC74VHC00FS .....	4-52
1SS184 .....	4-2	2SD1935 .....	4-2	CXD2306Q .....	4-12	NJM360M .....	4-48	TC74VHC04FS .....	4-5
1SS193 .....	4-2	2SD2114K .....	4-2	CXD303-101Q .....	4-15	NJM386BM .....	4-48	TC74VHC08FS .....	4-5
1SS226 .....	4-2	2SD596 .....	4-2	CXD304-106Q .....	4-16	NJM4556M .....	4-48	TC74VHC123AF .....	4-57
1SS303 .....	4-2	2SJ132 .....	4-3	CXD306-138Q .....	4-17	NJM4565M-A .....	4-49	TC74VHC123FS .....	4-58
1SS83 .....	4-2	2SJ176 .....	4-3	CXD8280AQ .....	4-18	NJM4580E .....	4-49	TC74VHC138FS .....	4-58
1SS97 .....	4-2	2SJ187 .....	4-3	CXD8281Q .....	4-19	NJM5534M .....	4-49	TC74VHC157FS .....	4-58
BR5505S;RED .....	4-2	2SJ332L .....	4-3	CXD8382BQ .....	4-21	NJM78L05A .....	4-49	TC74VHC163F .....	4-58
CL-150R-CD;RED .....	4-2	2SK1483 .....	4-3	CXD8384Q .....	4-23	NJM78L05UA .....	4-49	TC74VHC164F .....	4-59
DA204U .....	4-2	2SK1949L .....	4-4	CXD8385Q .....	4-25	NJM79L05UA .....	4-49	TC74VHC165FS .....	4-53
DA227 .....	4-2	2SK2084L .....	4-4	CXD8386AQ .....	4-20	PCM69U-J .....	4-49	TC74VHC174F .....	4-59
DAN202U .....	4-2	2SK2151 .....	4-4	CXD8804Q .....	4-27	REF-03GS .....	4-50	TC74VHC175FS .....	4-53
DAP202U .....	4-2	2SK2205 .....	4-4	CXD8805Q .....	4-28	S-8052-ANY-NH .....	4-50	TC74VHC21F .....	4-59
DTZ12 .....	4-2	2SK711 .....	4-4	CXD8815Q .....	4-29	S-8052ALY .....	4-50	TC74VHC221AF .....	4-57
EBR3402S;RED .....	4-2	2SK738 .....	4-4	CXD8817Q .....	4-30	S-8054HN .....	4-50	TC74VHC240F .....	4-59
EC10QS-04 .....	4-2	2SK739-Z .....	4-4	CXD8819AQ .....	4-31	S-81250HG-RD .....	4-51	TC74VHC244F .....	4-51
ERA65 .....	4-2	2SK852-X2 .....	4-4	CXD8821Q .....	4-33	SBX1601A .....	4-50	TC74VHC244FS .....	4-51
ERB83 .....	4-2	2SK94-X4 .....	4-4	CXD8854Q .....	4-34	SBX1602A .....	4-50	TC74VHC245F .....	4-54
ERC62M-004 .....	4-2	DTA124EUA .....	4-3	CXK1203AR .....	4-34	SC7S04F .....	4-52	TC74VHC245FS .....	4-54
RB420D .....	4-2	DTA144EUA .....	4-3	CXK58257AM-10L .....	4-35	SC7S32F .....	4-52	TC74VHC27FS .....	4-59
RB715F .....	4-2	DTA144WU .....	4-3	DS1000Z-100 .....	4-38	SM5843AS1 .....	4-52	TC74VHC32F .....	4-5
RB717F .....	4-2	DTC124EUA .....	4-3	HD14053BFP .....	4-35	SN74HC00ANS .....	4-52	TC74VHC32FS .....	4-5
RD ?M-B .....	4-2	DTC124XKA .....	4-3	HD6415108RF10 .....	4-37	SN74HC04ANS .....	4-5	TC74VHC368FS .....	4-60
RD10M .....	4-2	DTC143TKA .....	4-3	HM53051FP-60 .....	4-35	SN74HC05ANS .....	4-53	TC74VHC374FS .....	4-54
RD11M-B1 .....	4-2	DTC144ESA .....	4-4	HM6264ALFP-12 .....	4-36	SN74HC08ANS .....	4-5	TC74VHC541F .....	4-6
RD15M-B1 .....	4-2	DTC144EUA .....	4-3	HM62W8127HJP-27 .....	4-36	SN74HC10ANS .....	4-53	TC74VHC541FS .....	4-6
RD2.0ESB2 .....	4-2	DTC144WU .....	4-3	HM62W8127HJP-35 .....	4-36	SN74HC151ANS .....	4-53	TC74VHC574F .....	4-60
RD3.3M-B .....	4-2	FMY3 .....	4-3	HM62W9127HJP-35 .....	4-39	SN74HC165ANS .....	4-53	TC74VHC574FS .....	4-60
RD3.6UH .....	4-2	IMZ1 .....	4-3	IDT6116SA25SO .....	4-39	SN74HC175ANS .....	4-53	TC74VHC74F .....	4-6
RD3.9UH .....	4-2	SI-9430DY .....	4-4	LA7205M .....	4-40	SN74HC245ANS .....	4-54	TC74VHC74FS .....	4-6
RD4.7UH .....	4-2	UMW1 .....	4-3	LM1881M .....	4-40	SN74HC32ANS .....	4-5	TC74VHC86F .....	4-60
RD5.6SB .....	4-2	.....	.....	LM2903PS .....	4-40	SN74HC374ANS .....	4-54	TC74VHCT244FS .....	4-51
RD6.8M-B .....	4-2	<b>Others .....</b>	<b>PAGE</b>	LM324NS .....	4-40	SN74HC4040ANS .....	4-54	TC74VHCT541FS .....	4-6
SB007-03CP .....	4-2	.....	.....	LM358D .....	4-40	SN74HC541ANS .....	4-6	TC7S08F .....	4-51
SB007T03Q .....	4-2	DM-230 .....	4-4	LM358PS .....	4-40	SN74HC74ANS .....	4-6	TC7S86F .....	4-51
SLP162B;RED .....	4-2	GP-1A06 .....	4-4	LT1180ACS .....	4-40	SN74HCT04ANS .....	4-5	TC7S86FU .....	4-51
TLR224;RED .....	4-2	GP1S54 .....	4-4	LT1227CS8 .....	4-41	SN74HCT244ANS .....	4-51	TC7SH32FU .....	4-52
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.....	.....	.....	.....	LTC491CS .....	4-41	SN74HCT32ANS .....	4-5	TC7W08FU .....	4-60
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2SC4213B .....	4-2	CXD1175AM .....	4-11	NJM2903M .....	4-40	TCT4HCT540AF .....	4-57	.....	.....

**DIODE**

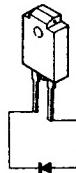
1SS119  
1SS83  
1SS97  
ERA85  
ERB83



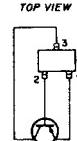
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DAN202U  
RB715F



CL-150R-CD;RED



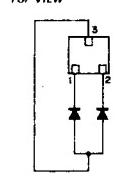
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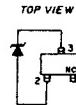
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2SA1808  
2SB1295



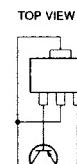
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RB420D  
SB007-03CP



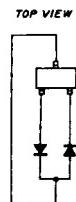
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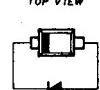
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RD10M  
RD11M-B1  
RD15M-B1  
RD3.3M-B  
RD3.6UH  
RD3.9UH  
RD4.7UH  
RD6.8M-B



2SB1123  
2SB798



1SS226  
DA204U  
SB007T03Q



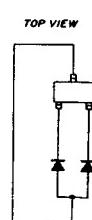
DTZ12



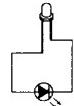
RD5.6SB



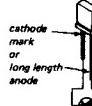
2SB1202FA



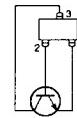
1SS303  
RB717F



EBR3402S;RED



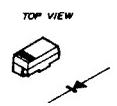
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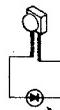
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2SC4213A  
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2SD1328  
2SD1935  
2SD2114K  
2SD596



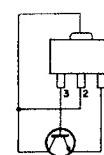
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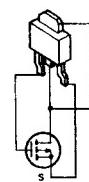
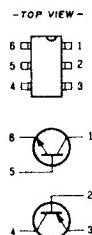
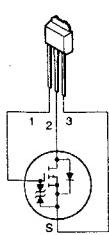
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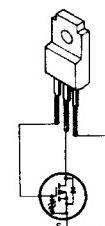
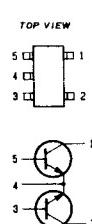
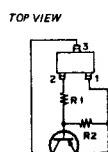
TLR224;RED



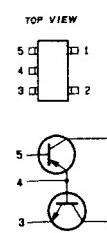
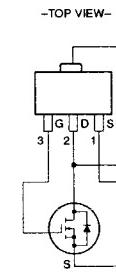
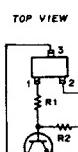
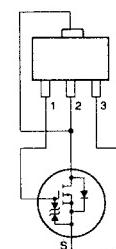
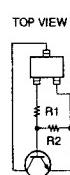
2SC2982C  
2SD1621  
2SD1623



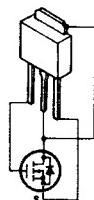
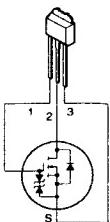
2SJ132



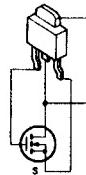
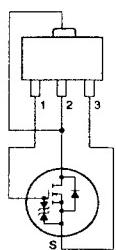
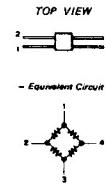
2SJ176



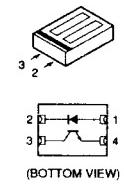
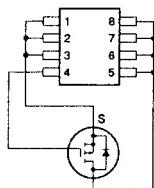
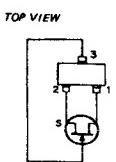
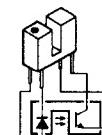
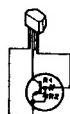
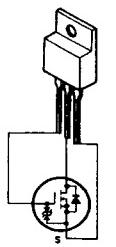
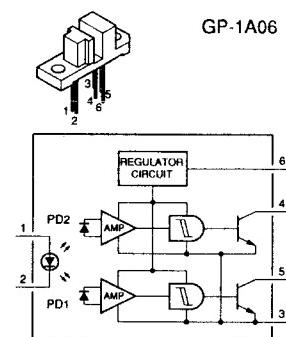
**Others**



2SK738



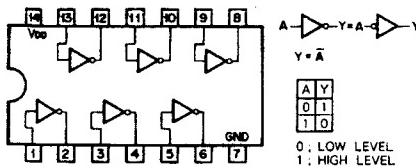
2SK739-Z



IC

74AC04SJ (NS) FLAT PACKAGE  
SN74HC04ANS (T1) FLAT PACKAGE  
SN74HCT04ANS (T1) FLAT PACKAGE  
TC74HCT04AF (TOSHIBA) FLAT PACKAGE  
TC74VHC04FS (EL) (TOSHIBA) FLAT PACKAGE (SMALL)

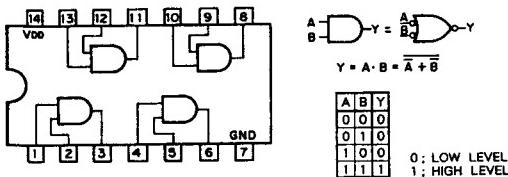
C-MOS HEX INVERTERS  
-TOP VIEW-



NOTE:	TYPE	V <sub>DD</sub>
	74HCT04 TYPE	+5V
	TC74AC04 TYPE	+2 to +5.5V
	TC74VHC04 TYPE	+4.5 to +5.5V
	T4ACT04 TYPE	+2 to +5V
	OTHER TYPES	+2 to +6V

74AC08SJ (NS) FLAT PACKAGE  
SN74HC08ANS (T1) FLAT PACKAGE  
TC74VHC08FS (EL) (TOSHIBA) FLAT PACKAGE (SMALL)

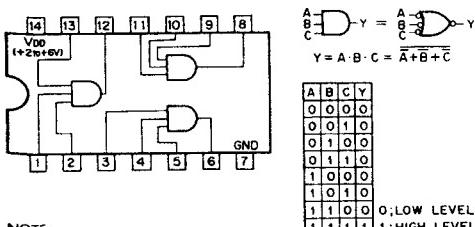
C-MOS QUAD 2-INPUT AND GATES  
-TOP VIEW-



NOTE:	TYPE	V <sub>DD</sub>
	TC74AC08 TYPE	+2 to +5.5V
	MC74ACT08M	+2 to +8V
	TC40H	+2 to +8V
	OTHER TYPES	+2 to +6V

74AC11SJ (NS) FLAT PACKAGE

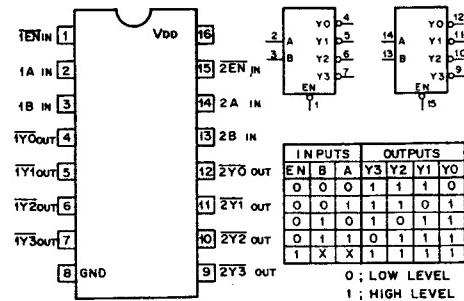
C-MOS 3-INPUT POSITIVE-AND GATE  
-TOP VIEW-



NOTE:	TYPE	V <sub>DD</sub>
	TC74VHC11	+2V to +5.5V
	OTHER TYPES	+2V to +6V

74AC139SJ (NS) FLAT PACKAGE

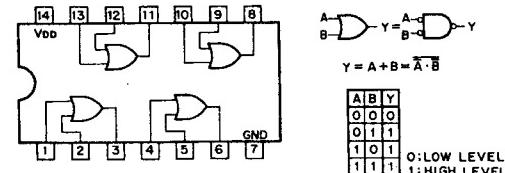
C-MOS DUAL 2-TO-4 DECODER/DEMULTIPLEXER  
-TOP VIEW-



NOTE:	TYPE	V <sub>DD</sub>
	HC	+2 to +6V
	AC/VHC	+2 to +5.5V
	HCT/ACT	+5V

74AC32SJ (NS) FLAT PACKAGE  
SN74HC32ANS (T1) FLAT PACKAGE  
SN74HCT32ANS (T1) FLAT PACKAGE  
TC74VHC32F (TOSHIBA) FLAT PACKAGE  
TC74VHC32FS (EL) (TOSHIBA) FLAT PACKAGE (SMALL)

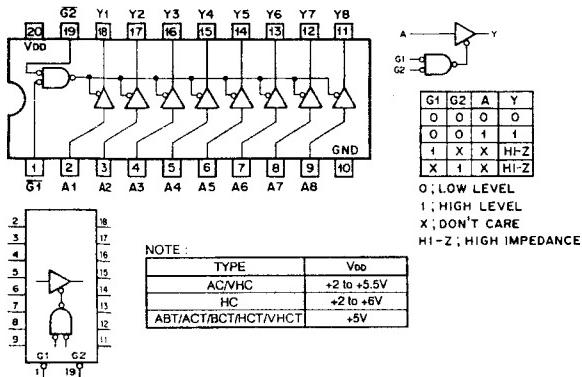
C-MOS QUAD 2-INPUT OR GATES  
-TOP VIEW-



NOTE:	TYPE	V <sub>DD</sub>
	AC/VHC	+2 to +5.5V
	HC	+2 to +6V

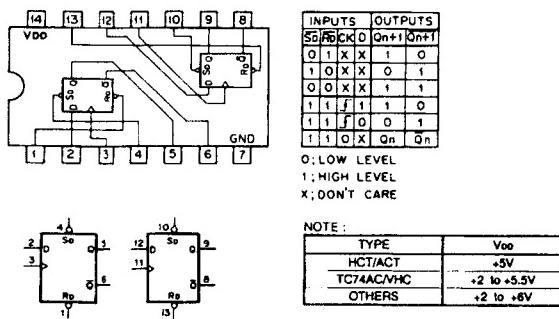
74AC541SJ (NS) FLAT PACKAGE  
MC74HC541N (MOTOROLA)  
SN74HC541ANS (TI) FLAT PACKAGE  
SN74HCT541ANS (TI) FLAT PACKAGE  
TC74VHC541F (TOSHIBA) FLAT PACKAGE  
TC74VHC541FS (EL) (TOSHIBA) FLAT PACKAGE (SMALL)  
TC74VHCT541FS (TOSHIBA) FLAT PACKAGE

C-MOS BUFFERS AND LINE DRIVERS WITH 3-STATE OUTPUTS  
-TOP VIEW-



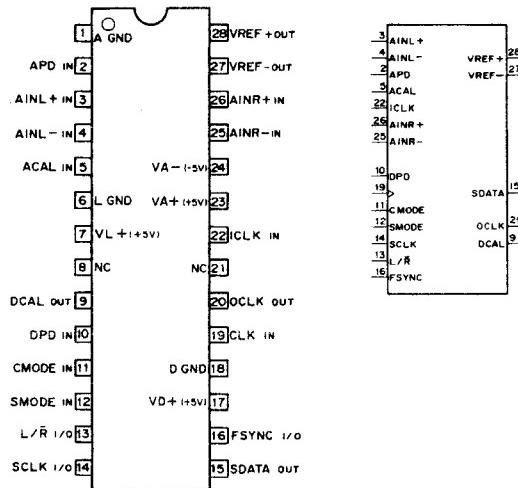
74AC74SJ (NS) FLAT PACKAGE  
SN74HC74ANS (TI) FLAT PACKAGE  
TC74VHC74F (TOSHIBA) FLAT PACKAGE  
TC74VHC74FS (EL) (TOSHIBA) FLAT PACKAGE (SMALL)

C-MOS DUAL D-TYPE FLIP-FLOPS WITH DIRECT SET/RESET  
-TOP VIEW-



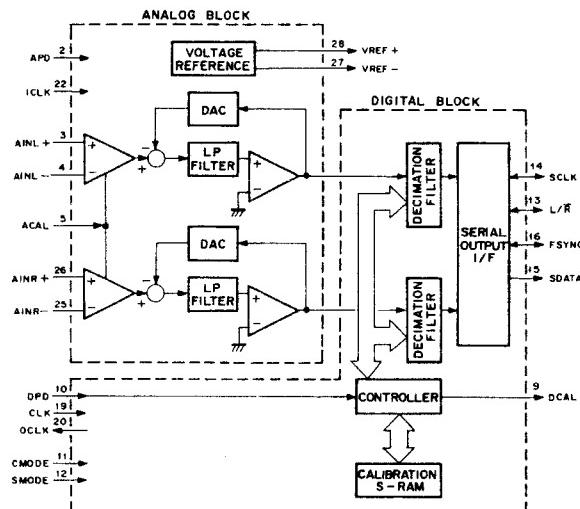
### AK5390-VS (ASAHI KASEI) FLAT PACKAGE

18-BIT STEREO A-D CONVERTER  
-TOP VIEW-



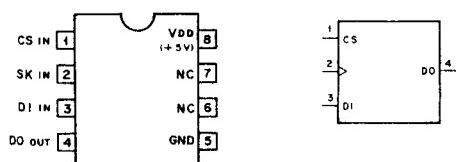
**INPUT**  
ACAL : ANALOG CALIBRATION  
(H : AGND)  
(L : ANALOG SIGNAL INPUT = AINL, AINR)  
AINL+ : CHANNEL L ANALOG POSITIVE INPUT  
AINL- : CHANNEL L ANALOG NEGATIVE INPUT  
AINR+ : CHANNEL R ANALOG POSITIVE INPUT  
AINR- : CHANNEL R ANALOG NEGATIVE INPUT  
APD : POWER DOWN FOR ANALOG SECTION  
CLK : MASTER CLOCK  
(CMODE = L : 256fs)  
(CMODE = H : 384fs)  
CMODE : MASTER CLOCK SELECT  
(L : CLK = 256fs, 12.288 MHz @ fs = 48 kHz)  
(H : CLK = 384fs, 18.432 MHz @ fs = 48 kHz)  
DPD : POWER DOWN FOR DIGITAL SECTION  
ICLK : 128fs CLOCK  
SMODE : INTERFACE CLOCK SELECT  
(L : SUB MODE)  
(H : MASTER MODE)

**OUTPUT**  
DCAL : DIGITAL CALIBRATION  
OCLK : 128fs CLOCK  
SDATA : SERIAL DATA  
VREF+ : REFERENCE POSITIVE VOLTAGE (+3.68 V)  
VREF- : REFERENCE NEGATIVE VOLTAGE (-3.68 V)  
**INPUT/OUTPUT**  
FSYNC : FRAME SYNC CLOCK  
L/R : INPUT CHANNEL SELECT  
(SUB MODE : fs CLK INPUT)  
(MASTER MODE : fs CLK OUTPUT)  
SCLK : SERIAL DATA CLOCK  
(SUB MODE : 54fs CLK INPUT)  
(MASTER MODE : 54fs CLK OUTPUT)



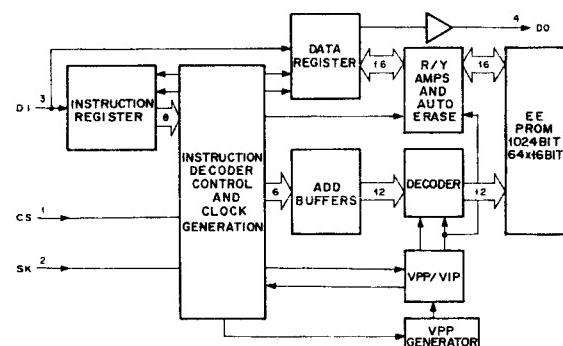
## CAT93C46KI

- TOP VIEW -



**INPUT**  
 CS : CHIP SELECT  
 DI : SERIAL DATA INPUT  
 SK : SERIAL CLOCK

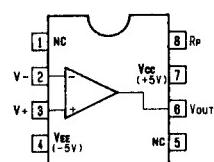
**OUTPUT**  
 DO : SERIAL DATA OUTPUT



## CLC505AJE (COMLINEAR) FLAT PACKAGE

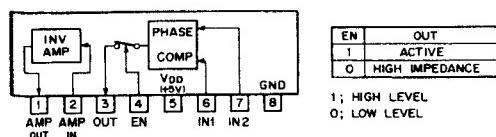
## OPERATIONAL AMPLIFIER

- TOP VIEW -

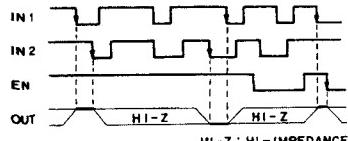


## CX23065A (SONY)

N-MOS PHASE COMPARATOR WITH INVERSION AMPLIFIER  
 - PRINTED SIDE VIEW -



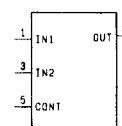
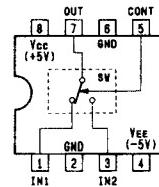
## TIMING CHART



## CXA1450M (SONY) FLAT PACKAGE

## VIDEO SIGNAL SWITCH

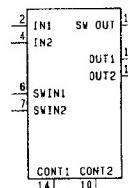
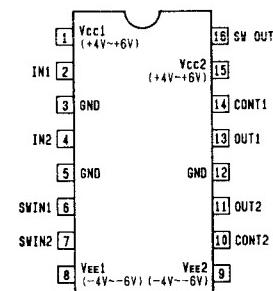
- TOP VIEW -



## CXA1451M (SONY)

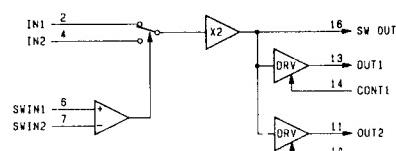
## WIDEBAND VIDEO SWITCH

- TOP VIEW -



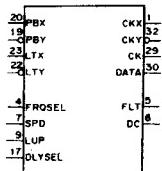
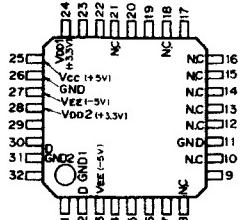
**INPUT**  
 CONT1, 2 : POWER SAVE CONTROL PIN OF DRV.1 AND DRV.2  
 INT1, 2 : 1/2-CHANNEL INPUT PIN  
 SWIN1, 2 : IN1/IN2 PINS SWITCH CONTROL PIN

**OUTPUT**  
 OUT1, 2 : OUTPUT PIN OF DRV.1/2  
 SWOUT : OUTPUTS IN1 PIN OR IN2 PIN WHICH HAS BEEN SELECTED BY SWITCH.



## CXA1805Q (SONY)

PHASE LOCKED LOOP CIRCUIT  
TOP VIEW -

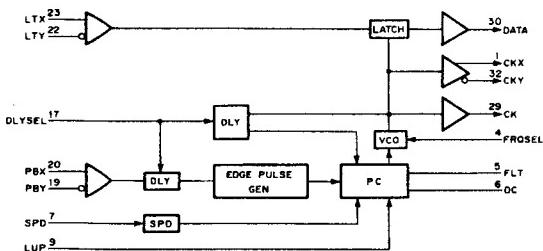


PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	O	CKX	17	I	DLYSEL
2	-	D GND1	18	-	N.C.
3	-	V <sub>EE</sub>	19	I	PBY
4	I	FROSEL	20	I	PBX
5	-	FLT	21	-	N.C.
6	-	DC	22	I	LTY
7	I	SPD	23	I	LTX
8	-	N.C.	24	-	V <sub>DD1</sub>
9	I	LUP	25	-	V <sub>CC</sub>
10	-	N.C.	26	-	GND
11	-	GND	27	-	V <sub>EE</sub>
12	-	N.C.	28	-	V <sub>DD2</sub>
13	-	N.C.	29	O	CK
14	-	N.C.	30	O	DATA
15	-	N.C.	31	-	D GND2
16	-	N.C.	32	O	CKY

**INPUT**  
 DLYSEL : EDGE PULSE WIDTH SELECT  
 (H  $\approx$  2.5 ns, L  $\leq$  5 ns)  
 FROSEL : VCO OSCILLATION FREQUENCY SELECT  
 LTX : LATCH INPUT (+)  
 LTY : LATCH INPUT (-)  
 LUP : PLL PULL-IN TIME CHANGE  
 PBX : PLL INPUT (+)  
 PBY : PLL INPUT (-)  
 SPD : DETERMINATION OF FREE RUN FREQUENCY

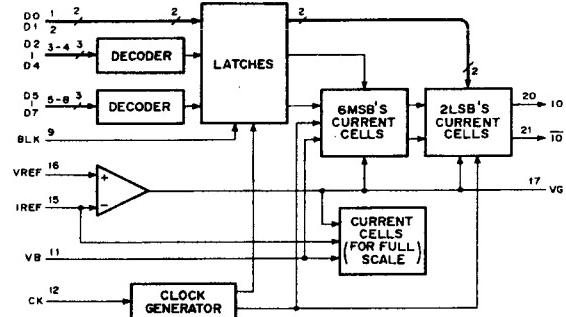
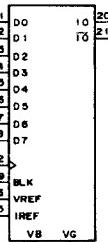
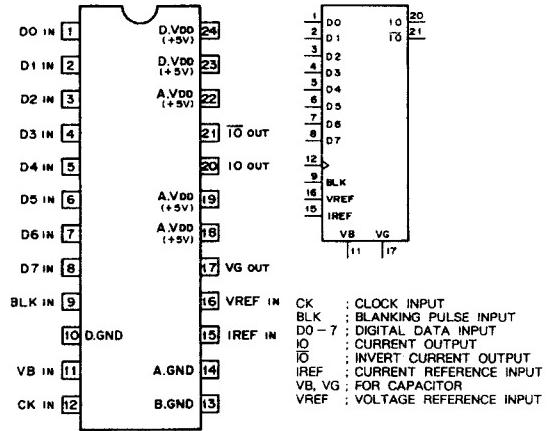
**OUTPUT**  
 CK : CLOCK OUTPUT  
 CKX : CLOCK OUTPUT (+)  
 CKY : CLOCK OUTPUT (-)  
 DATA : DATA OUTPUT

**OTHER**  
 DC : CONNECT DECOUPLING FOR BIAS CIRCUIT  
 FLT : CONNECT CONSTANT OF LOOP FILTER

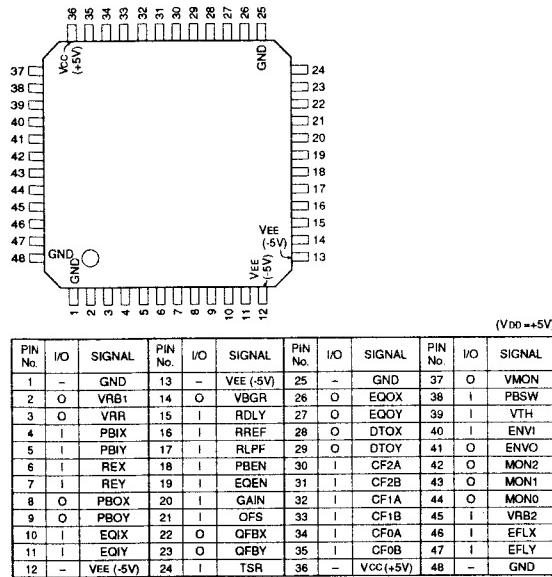


## CXD1171M (SONY) FLAT PACKAGE

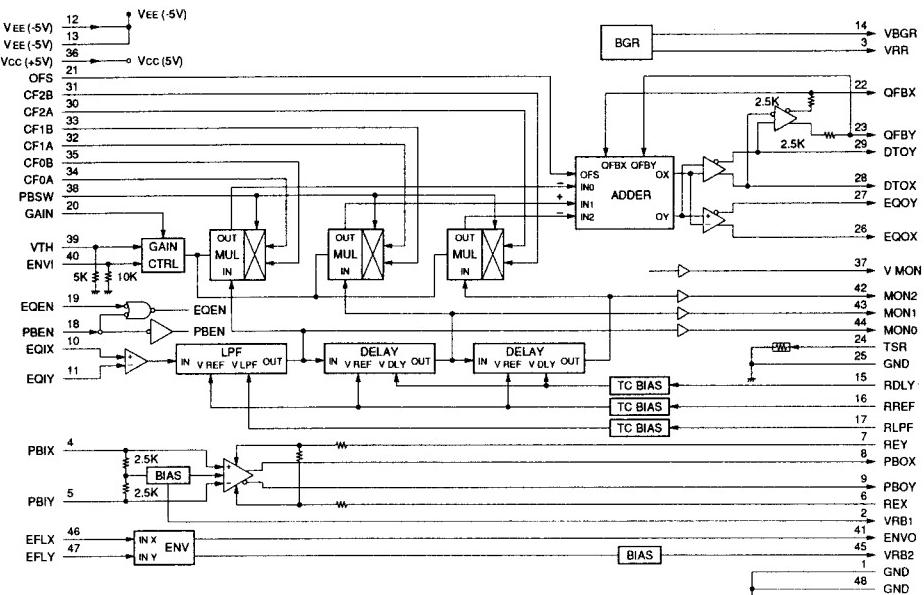
C-MOS 8-BIT D/A CONVERTER  
TOP VIEW -



## CXA3034Q (SONY)

BYPOLAR/SILICON MONOLITHIC IC  
- TOP VIEW -

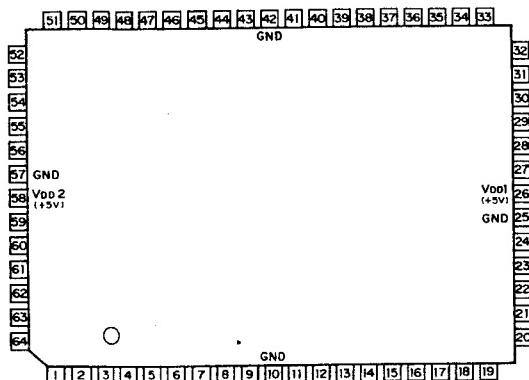
INPUT			
CF0A,OB,1A,1B,2A,2B	; 3TAP FIR FILTER COEFFICIENT INPUT	44	
CF0B	VMON1	43	; ENVELOPE DETECTOR DRIVE (X,Y)
CF1A	VMON1	42	ENV1 ; AGC VOLTAGE
CF1B	VMON2	42	EQIN, EQIY ; EQUALIZER DRIVE (X,Y)
CF2A		6	EQEN ; ENABLE INPUT
CF2B		7	GAIN ; GAIN (EQUALIZER)
		REX	OFS ; OFF SET CONTROL (DC SERVO FEEDBACK INPUT)
		REY	PBEN ; ENABLE INPUT
		PBX,PBIY	PBXI,PBIY ; PREAMP DRIVE (X,Y)
		PBOX,PBOY	PB SW ; 3TAP FIR FILTER COEFFICIENT SELECT
		RDLY	, ACTIVE DELAY BIAS RESISTER
		EQIX, EQIY	REX, REY ; PREAMP GAIN SELECT (X,Y) (NORMALLY SHORT)
		EQOY	RLPF ; ACTIVE LPF BIAS RESISTER
		EQOY	RREF ; ACTIVE DELAY/LPF BIAS RESISTER
		QFBX,QFBY	TSR ; CHIP THERMAL DETECT RESISTER
		QFBX	VTH ; AGC GAIN LIMITTER
		QFBY	
OUTPUT			
ENV1	ENVO	41	ZERO CROSS COMPARATOR ECL DRIVE (X,Y)
		DTOX, DTOY	ENVO ; ENVELOPE DETECTOR
		28	EQOX, EQOY ; EQUALIZER DRIVE (X,Y)
		29	PBOX, PBOY ; PREAMP DRIVE (X,Y)
		EFLX	QFBX, QFBY ; QFB FILTER (X,Y)
		EFLY	VRB1 ; BAND GAP REFERENCE VOLTAGE
		VRB1	VRB2 ; BAND GAP REFERENCE VOLTAGE
		45	VMON ; MONITOR OUT REFERENCE VOLTAGE
		20	VMON1 ; MONITOR OUT (ACTIVE LPF)
		3	VMON2 ; MONITOR OUT (ACTIVE DELAY1)
		21	VMON0 ; MONITOR OUT (ACTIVE DELAY2)
		14	VRB1 ; PREAMP REFERENCE VOLTAGE
		39	VRB2 ; ENVELOPE DETECTOR REFERENCE VOLTAGE
		15	VTH ; EQUALIZER REFERENCE VOLTAGE
		16	RREF
		17	RLPF
		18	TSR
		19	



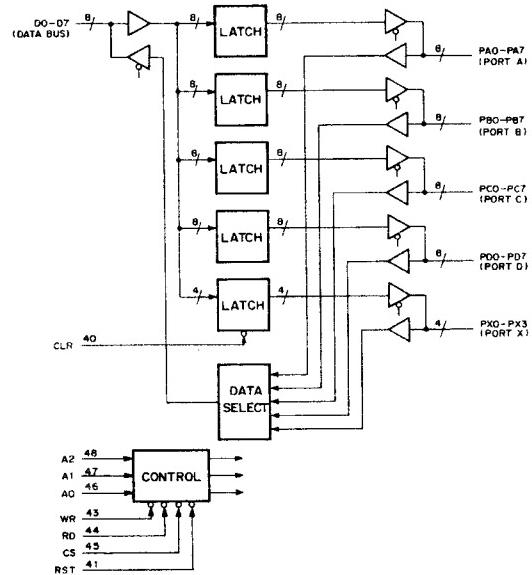
## CXD1095Q (SONY) FLAT PACKAGE

C-MOS I/O PORT EXPANDER

- TOP VIEW -



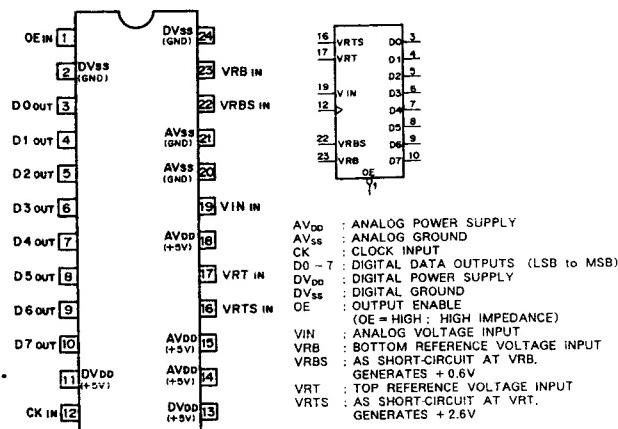
PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL
1	NC	17	O O	PC6	33			49	O O	PX0	
2	NC	18	O O	PC7	34			50	O O	PX1	
3	O O	PB1	19	NC	35	O O	D3	51		NC	
4	O O	PB2	20	O O	PD0	36	O O	D4	52	O O	PX2
5	O O	PB3	21	O O	PD1	37	O O	D5	53	O O	PX3
6	O O	PB4	22	O O	PD2	38	O O	D6	54	O O	PA0
7	O O	PB5	23	O O	PD3	39	O O	D7	55	O O	PA1
8	O O	PB6	24	O O	PD4	40	O	CLR	56	O O	PA2
9	O O	PB7	25	GND	41	O	RST	57		GND	
10	GND	26	O	V <sub>DD</sub> (+5V)	42		GND	58	O	V <sub>DD</sub> (+5V)	
11	O O	PC0	27	O O	PD5	43	O	WR	59	O O	PA3
12	O O	PC1	28	O O	PD6	44	O	RD	60	O O	PA4
13	O O	PC2	29	O O	PD7	45	O	CS	61	O O	PA5
14	O O	PC3	30	O O	DO	46	O	A0	62	O O	PA6
15	O O	PC4	31	O O	D1	47	O	A1	63	O O	PA7
16	O O	PC5	32	O O	D2	48	O	A2	64	O O	PB0



	CS	RD	WR	A2	A1	A0	MODE
PA0	54						
PA1	55						
PA2	56						
PA3	59						
PA4	60						
PA5	61						
PA6	62						
DO	30						
D1	31						
D2	32						
D3	33						
PB0	64						
PB1	3						
PB2	4						
PB3	5						
PB4	6						
PB5	7						
PB6	8						
PB7	9						
PX1	34						
PX2	35						
PX3	36						
PC0	11						
PC1	12						
PC2	13						
PC3	14						
PC4	15						
PC5	16						
PC6	17						
PC7	18						
A2	43						
A1	44						
A0	45						
WR	46						
RD	47						
CS	48						
RD	49						
WR	50						
DO	20						
RST	21						
CLR	22						
PC0	23						
PC1	24						
PC2	25						
PC3	26						
PC4	27						
PC5	28						
PC6	29						
PC7	30						
PA0~PA7	31						
PA0~PA7	32						
PA0~PA7	33						
PA0~PA7	34						
PA0~PA7	35						
PA0~PA7	36						
PA0~PA7	37						
PA0~PA7	38						
PA0~PA7	39						
PA0~PA7	40						
PA0~PA7	41						
PA0~PA7	42						
PA0~PA7	43						
PA0~PA7	44						
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PA0~PA7	58						
PA0~PA7	59						
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PA0~PA7	61						
PA0~PA7	62						
PA0~PA7	63						
PA0~PA7	64						

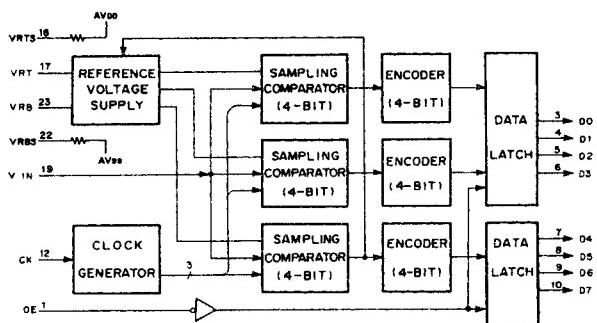
## CXD1175AM (SONY) FLAT PACKAGE

C-MOS 8-BIT 20MSPS VIDEO A/D CONVERTER  
-TOP VIEW-



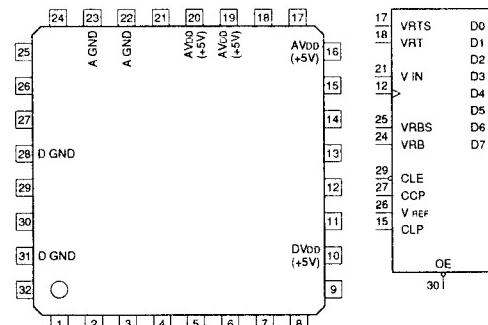
STEP	INPUT SIGNAL VOLTAGE	DATA OUTPUTS							
		D7	D6	D5	D4	D3	D2	D1	D0
0	0V (VRT)	1	1	1	1	1	1	1	1
1	0.01V	1	1	1	1	1	1	1	0
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
127	1.34V	1	0	0	0	0	0	0	0
128	1.35V	0	1	1	1	1	1	1	1
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
255	2.7V (VRB)	0	0	0	0	0	0	0	0

0 : LOW LEVEL  
1 : HIGH LEVEL



## CXD2302Q (SONY)

C-MOS 8-BIT 50MSPS VIDEO A/D CONVERTER  
-TOP VIEW-



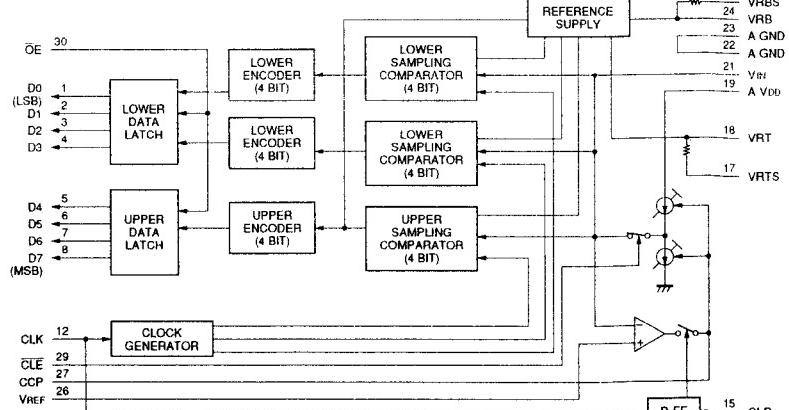
PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	O	D0 (LSB)	17	I	VRTS
2	O	D1	18	I	VRT
3	O	D2	19	-	A Vdd
4	O	D3	20	-	A Vdd
5	O	D4	21	I	V IN
6	O	D5	22	-	A GND
7	O	D6	23	--	A GND
8	O	D7 (MSB)	24	I	VRB
9	-	TEST	25	I	VRBS
10	-	D Vdd	26	I	V REF
11	-	TEST	27	I	CCP
12	I	CLK	28	-	D GND
13	-	NC	29	I	CL
14	-	NC	30	I	OE
15	I	CLP	31	-	D GND
16	-	A Vdd	32	-	NC

**INPUT**

- CCP : CLAMP CONTROL VOLTAGE FOR INTEGRATOR
- CLP : CLAMP ENABLE
- CLK : CLOCK
- CLP : CLAMP PULSE
- OE : OUTPUT ENABLE
- V IN : ANALOG
- VRB : REFERENCE VOLTAGE (BOTTOM)
- VRBS : SELF REFERENCE VOLTAGE
- VRB : SHORT TO AGND (+0.6 Vbottom)
- VREF : VOLTAGE REFERENCE FOR CLAMP
- VRT : REFERENCE VOLTAGE (TOP)
- VRTS : SELF REFERENCE VOLTAGE SHORT TO AVdd (+2.5 Vtop)

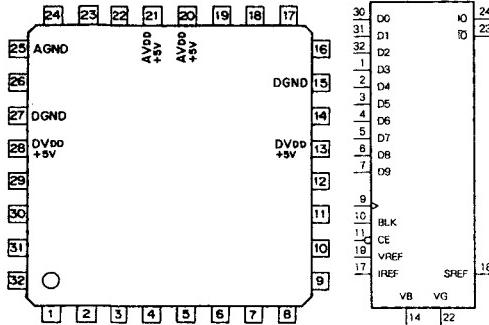
**OUTPUT**

D0-D7 : DATA



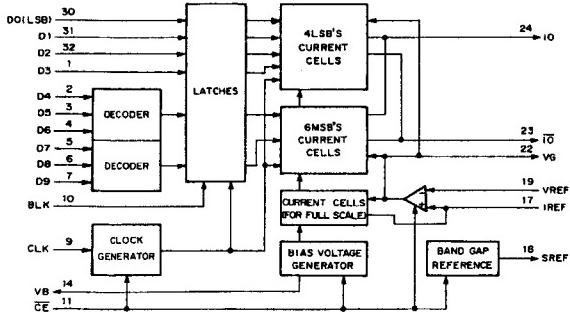
## CXD2306Q (SONY)

C-MOS 10-BIT 75MSPS 1CH D/A CONVERTER  
- TOP VIEW -



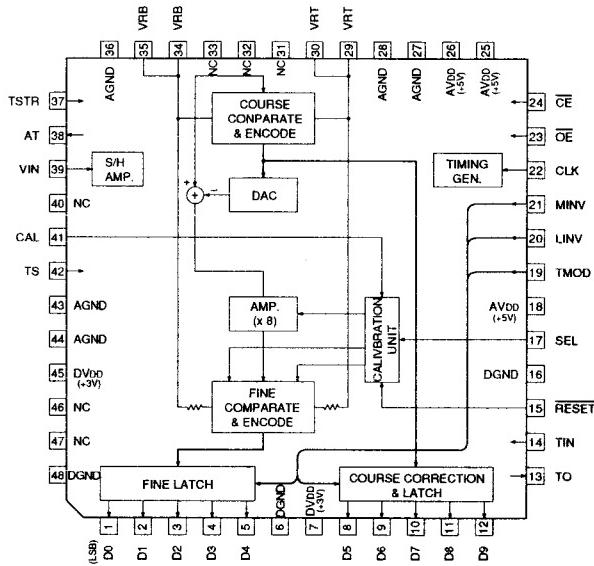
(A.VDD, D.VDD = + 5V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	D3	17	I	IREF
2	I	D4	18	O	SREF
3	I	D5	19	I	VREF
4	I	D6	20	-	A.VDD
5	I	D7	21	-	A.VDD
6	I	D8	22	O	VG
7	I	D9 (MSB)	23	O	IO
8	-	NC	24	O	IO
9	I	CK	25	-	AGND
10	I	BLK	26	-	NC
11	I	CE	27	-	D.GND
12	-	NC	28	-	D.VDD
13	-	D.VDD	29	NC	
14	O	VB	30	I	D0 (LSB)
15	-	D.GND	31	I	D1
16	-	NC	32	I	D2



## CXD2310R (SONY)

C-MOS 10-BIT 20MSPS VIDEO A/D CONVERTER  
- TOP VIEW -



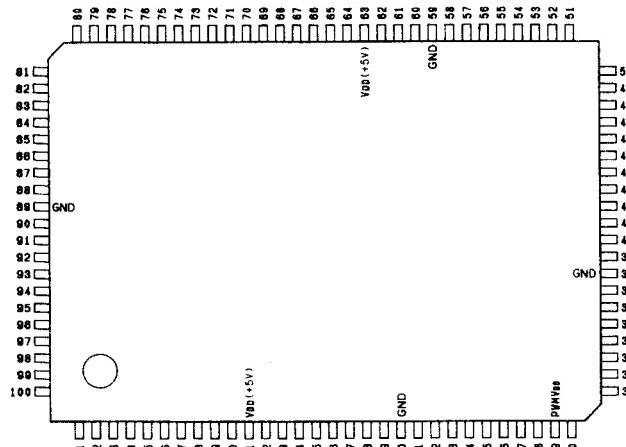
29	VRT	D9	12
30	VRT	D8	11
39	VIN	D7	10
34	VRB	D6	9
35	VRB	D5	8
41	CAL	D4	7
17	SEL	D3	6
15	RESET	D2	5
24	CE	D1	4
23	OE	D0	3
22	CLK		2
14	TIN	TO	1
37	TSTR	AT	38
42	TS		

INPUT	
CAL	: CALIBRATION PULSE INPUT
CE	: CHIP ENABLE
CLK	: CLOCK
LINV	: OUTPUT (D0-D8) INVERSION
MINV	: OUTPUT (D9) INVERSION
OE	: DIGITAL DATA OUTPUT ENABLE
RESET	: CALIBRATION CIRCUIT RESET
SEL	: OUTPUT DATA (D5-D9) SELECT FOR CALIBRATION (4-CLOCK) HIGH; THROUGH OUTPUT, LOW; DATA FIXED AS WITH D0-D4
TIN	: TEST SIGNAL INPUT
TMOD	: TEST MODE
TS	: TEST SIGNAL INPUT
TSTR	: TEST SIGNAL INPUT
VRB	: REFERENCE BOTTOM VOLTAGE
VRT	: REFERENCE TOP VOLTAGE

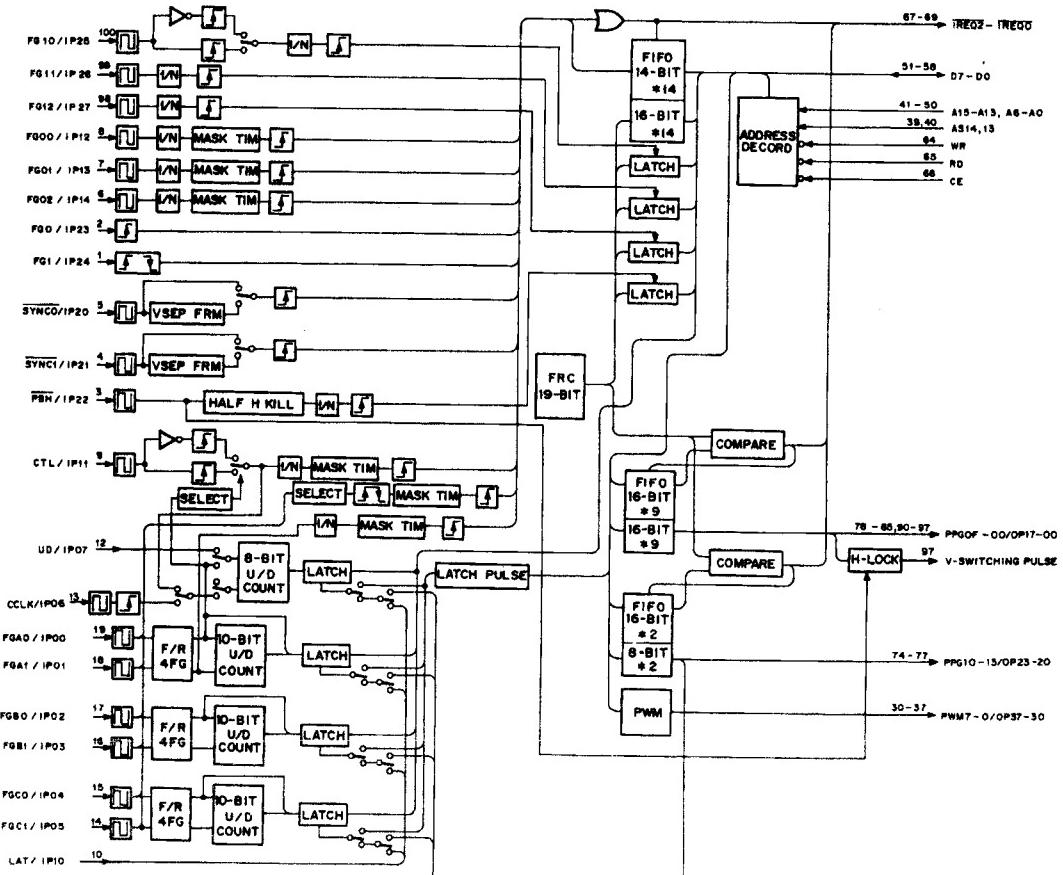
  

OUTPUT	
AT	: TEST SIGNAL OUTPUT
D0-D9	: DIGITAL DATA OUTPUT
TO	: TEST PIN

## CXD2202Q (SONY)

SERVO IC  
- TOP VIEW -

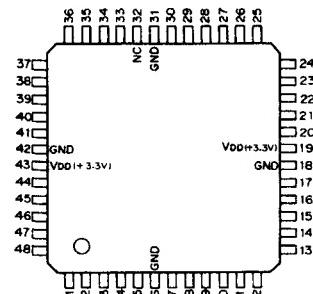
(Vdd = + 5V)											
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	FG1/IP24	26	I/O	IOP2	51	I/O	D7	76	O	PPG11/OP21
2	I	FG01/IP23	27	I/O	IOP1	52	I/O	D6	77	O	PPG10/OP20
3	I	PBH/IP22	28	I/O	IOP0	53	I/O	D5	78	O	PPG0F/OP17
4	I	SYNCT/IP21	29	-	PWM V <sub>dd</sub>	54	I/O	D4	79	O	PPG0E/OP16
5	I	SYNCO/IP20	30	O	PWM7/OP37	55	I/O	D3	80	O	PPG0D/OP15
6	I	FG02/IP14	31	O	PWM6/OP36	56	I/O	D2	81	O	PPG0C/OP14
7	I	FG01/IP13	32	O	PWM5/OP35	57	I/O	D1	82	O	PPG0B/OP13
8	I	FG00/IP12	33	O	PWM4/OP34	58	I/O	D0	83	O	PPG0A/OP12
9	I	CTL/IP11	34	O	PWM3/OP33	59	-	GND	84	O	PPG09/OP11
10	I	LAT/IP10	35	O	PWM2/OP32	60	I	RES	85	O	PPG08/OP10
11	-	V <sub>dd</sub>	36	O	PWM1/OP31	61	I	MD1	86	O	CLK0
12	I	UD/IP07	37	O	PWM0/OP30	62	I	MDO	87	I	EXTAL
13	I	CCLK/IP06	38	-	GND	63	-	V <sub>dd</sub>	88	O	XTAL
14	I	FGC1/IP05	39	I	AS14	64	I	WR	89	-	GND
15	I	FGC0/IP04	40	I	AS13	65	I	RD	90	O	PPG07/OP07
16	I	FBG1/IP03	41	I	A15	66	I	CE	91	O	PPG06/OP06
17	I	FBG0/IP02	42	I	A14	67	O	IREQ2	92	O	PPG05/OP05
18	I	FGA1/IP01	43	I	A13	68	O	REQ1	93	O	PPG04/OP04
19	I	FGA0/IP00	44	I	A6	69	O	IREQ0	94	O	PPG03/OP03
20	-	GND	45	I	A5	70	I	FXSEL	95	O	PPG02/OP02
21	I/O	IOP7	46	I	A4	71	O	OP26	96	O	PPG01/OP01
22	I/O	IOP6	47	I	A3	72	O	EXCS7/OP25	97	O	PPG00/OP00
23	I/O	IOP5	48	I	A2	73	O	EXCS8/OP24	98	I	FG12/IP27
24	I/O	IOP4	49	I	A1	74	O	PPG13/OP23	99	I	FG11/IP26
25	I/O	IOP3	50	I	A0	75	O	PPG12/OP22	100	I	FG10/IP25



41	A15	D7	51	<b>INPUT</b>
42	A14	D6	52	A0 - A15 : ADDRESS BUS
43	A13	D5	53	AS13, AS14 : SELECTING CONDITION OF ADDRESS DECODER AS13 AND AS14 BITS
44	A6	D4	54	CCLK : 8-BIT COUNTER CLOCK INPUT
45	A5	D3	55	CE : CHIP ENABLE
46	A4	D2	56	CTL : RESOLUTION 2.5MHz WITH EDGE SELECT FUNCTION. WITH FREQUENCY DIVISION MASK TIMER
47	A3	D1	57	EXTAL : CRYSTAL OSCILLATION OR EXTERNAL CLOCK INPUT
48	A2	00	58	F00 : RESOLUTION 2.5MHz
49	A1			FG00 - FG02 : FREQUENCY DIVISION ENABLE RESOLUTION 2.5MHz. WITH FREQUENCY DIVISION MASK TIMER
50	A0	IOP7	21	FG1 : RESOLUTION 2.5MHz BOTH EDGES
39	AS14	IOP6	22	FG10 : EDGE SELECTION ENABLE RESOLUTION 10MHz
40	AS13	IOP5	23	FG11, 12 : FREQUENCY DIVISION ENABLE RESOLUTION 10MHz
98	F612/IP27	IOP4	24	FGA0 : PERFORMS FORWARD/REVERSE ROTATION DETECTION AND 4FG COUNT (UP/DOWN) BY FGA0 AND FGA1. 10 BITS. UP/DOWN IS MADE BY CONTROLLING THE UP/DOWN OF 8-BIT COUNTER.
99	F611/IP26	IOP3	25	FGA1 : 4FG PERFORMS FREQUENCY DIVISION AND FRC CAPTURE THROUGH MASK TIMER. *1 : SELECTS ONE OF FGA0 TO FGC1 INPUT AND DETECTS BOTH EDGES AND PERFORM THE FRC CAPTURE THROUGH THE MASK TIMER.
100	F610/IP25	IOP2	26	FGB0 : PERFORMS FORWARD/REVERSE ROTATION DETECTION AND 4FG COUNT BY FGB0 AND FGB1.
6	F602/IP14	IOP1	27	*1 : SELECTS ONE OF FGA0 TO FGC1 INPUT AND DETECTS BOTH EDGES AND PERFORM THE FRC CAPTURE THROUGH THE MASK TIMER.
7	F601/IP13	IOP0	28	FGB1 : PERFORMS FORWARD/REVERSE ROTATION DETECTION AND 4FG COUNT BY FGC0 AND FGC1.
8	F600/IP12	PWM7/OP37	30	FGC0 : PERFORMS FORWARD/REVERSE ROTATION DETECTION AND 4FG COUNT BY FGC0 AND FGC1.
1	F601/IP24	PWM6/OP36	31	FGC1 : *1 : SELECTS ONE OF FGA0 TO FGC1 INPUT AND DETECTS BOTH EDGES AND PERFORM THE FRC CAPTURE THROUGH THE MASK TIMER.
2	F600/IP23	PWM5/OP35	32	FXSEL : FREQUENCY DIVISION SELECTION OF CLOCK INPUT
4	SYNC1/IP21	PWM4/OP34	33	LAT : EXTERNAL LATCH TIMING OF UP/DOWN COUNTER
5	SYNC0/IP20	PWM3/OP33	34	MDO, 1 : TEST MODE DESIGNATION
3	PBH/IP22	PWM2/OP32	35	PBH : INPUT OF COMPOSITE SYNC OR H SYNC. RESOLUTION 10MHz. WITH HALF H KILLER.
9	CTL/IP11	PWM1/OP31	36	RD : REDE
10	LAT/IP10	PWM0/OP30	37	RES : RESET
12	UD/IP07	PPG0F/OP17	78	SYNCO, 1 : INPUT OF COMPOSITE SYNC OR V SYNC. RESOLUTION 2.5MHz.
13	CCLK/IP06	PPG0E/OP16	79	UD : 8-BIT COUNTER UP/DOWN INPUT
14	F6C1/IP05	PPG0D/OP15	80	WR : WRITE
15	F6C0/IP04	PPG0C/OP14	81	<b>OUTPUT</b>
16	F6B1/IP03	PPG0B/OP13	82	CLKO : CLOCK OUTPUT
17	F6B0/IP02	PPG0A/OP12	83	EXCS0, 1 : DECODE AT ADDRESS A3 LEVEL
18	F6A1/IP01	PPG13/OP23	74	IREQ0 : INTERRUPTION SIGNAL OF FRC CAPTURE UNIT
19	F6A0/IP00	PPG12/OP22	75	IREQ1 : COINCIDENCE INTERRUPTION OF PPG0
61	MD1	PPG11/OP21	76	IREQ2 : COINCIDENCE INTERRUPTION OF PPG1
62	MDO	PPG10/OP20	77	OP26 : EXCLUSIVELY OUTPUT PORT
63	RES	PPG09/OP19	78	PPG00 - PPG0F : PROGRAMMABLE PULSE GENERATOR RESOLUTION 1.25MHz PPG00 : WITH HLOCK
70	FXSEL	PPG08/OP18	79	PWM0 - PWM5 : PWM OUTPUT NORMALLY PWM, OR PWM0 AND PWM1, PWM2 AND PWM3, OR PWM4 AND PWM5 OUTPUT SIGNAL CORRESPONDED TO PUSH-PULL.
87	EXTAL	PPG07/OP07	90	PWM6, 7 : PWM OUTPUT
		PPG06/OP06	91	XTAL : CRYSTAL OSCILLATION
		PPG05/OP05	92	
		PPG04/OP04	93	
		PPG03/OP03	94	
		PPG02/OP02	95	
		PPG01/OP01	96	
		PPG00/OP00	97	
		OP26	71	
		EXCS1/OP25	72	<b>INPUT/OUTPUT</b>
		EXCS0/OP24	73	DO - D7 : DATA BUS
		IREQ2	87	IOP0 - IOP7 : SELECTS AND USES INPUT AND OUTPUT BY EVERY 1 BIT.
		IREQ1	88	
		IREQ0	89	
		CLKO	86	
		XTAL	88	
	VR	RD	CE	
	64	85	86	

## CXD303-101Q (SONY)

C-MOS SETUP ADD/REMOVE  
- TOP VIEW -

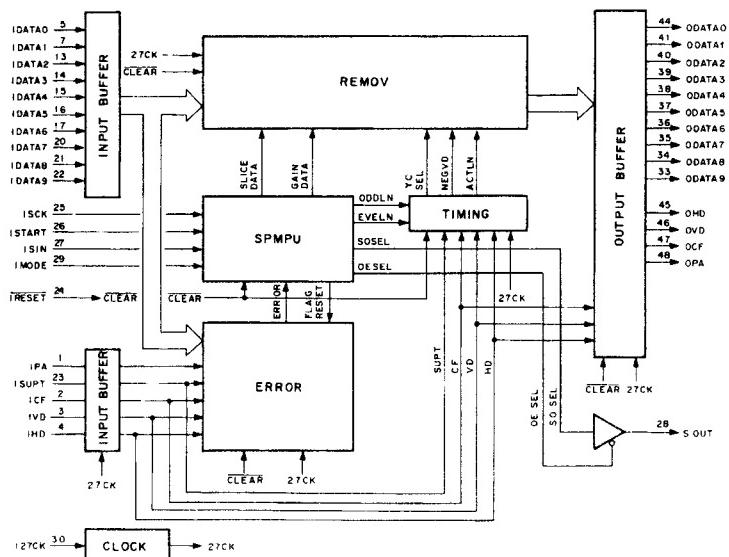


(V <sub>DD</sub> = +3.3V)								
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	IPA	13	I	IDATA2	25	I	ISCK
2	I	ICF	14	I	IDATA3	26	I	ISTART
3	I	IVD	15	I	IDATA4	27	I	ISIN
4	I	IHD	16	I	IDATA5	28	O	SOUT
5	I	IDATA0	17	I	IDATA6	29	I	IMODE
6	-	GND	18	-	GND	30	I	I27CK
7	I	IDATA1	19	-	V <sub>DD</sub>	31	-	GND
8	I	TCK	20	I	IDATA7	32	-	NC
9	I	TDI	21	I	IDATA8	33	O	ODATA9
10	I	TENAI	22	I	IDATA9	34	O	ODATA8
11	O	TDO	23	I	ISUPT	35	O	ODATA7
12	-	VST	24	I	IRESET	36	O	ODATA6

INPUT	
1	I27CK : SYSTEM CLOCK (27MHz)
2	ICF : COLOR FRAMING DATA
3	IDATA0-IDATA9 : 4:2:2 PARALLEL DATA
4	IHD : HD
5	IMODE : SERIAL COMMUNICATION FORMAT SELECT (1: ANALOG TBC PLAYBACK COMMUNICATION FORMAT, 0: DIGITAL B CAM RECORD COMMUNICATION FORMAT)
6	IPA : PARITY DATA
7	IRESET : SYSTEM RESET
8	ISCK : SERIAL COMMUNICATION CLOCK
9	ISIN : SERIAL COMMUNICATION DATA
10	ISTART : SERIAL COMMUNICATION START PULSE
11	IVD : VD
12	ISUPT : HALF H BLANKING TIMING PULSE
13	IPDA : PARITY DATA
14	ISCK : SERIAL COMMUNICATION CLOCK
15	ISIN : SERIAL COMMUNICATION DATA
16	ISTART : SERIAL COMMUNICATION START PULSE
17	IVD : VD
18	ISUPT : HALF H BLANKING TIMING PULSE
19	IPDA : PARITY DATA
20	ISCK : SERIAL COMMUNICATION CLOCK
21	ISIN : SERIAL COMMUNICATION DATA
22	ISTART : SERIAL COMMUNICATION START PULSE
23	IVD : VD
24	ISUPT : HALF H BLANKING TIMING PULSE
25	IPDA : PARITY DATA
26	ISCK : SERIAL COMMUNICATION CLOCK
27	ISIN : SERIAL COMMUNICATION DATA
28	ISTART : SERIAL COMMUNICATION START PULSE
29	IVD : VD
30	ISUPT : HALF H BLANKING TIMING PULSE
31	IPDA : PARITY DATA
32	ISCK : SERIAL COMMUNICATION CLOCK
33	ISIN : SERIAL COMMUNICATION DATA
34	ISTART : SERIAL COMMUNICATION START PULSE
35	IVD : VD
36	ISUPT : HALF H BLANKING TIMING PULSE
37	IPDA : PARITY DATA
38	ISCK : SERIAL COMMUNICATION CLOCK
39	ISIN : SERIAL COMMUNICATION DATA
40	ISTART : SERIAL COMMUNICATION START PULSE
41	IVD : VD
42	ISUPT : HALF H BLANKING TIMING PULSE
43	IPDA : PARITY DATA
44	ISCK : SERIAL COMMUNICATION CLOCK
45	ISIN : SERIAL COMMUNICATION DATA
46	ISTART : SERIAL COMMUNICATION START PULSE
47	IVD : VD
48	ISUPT : HALF H BLANKING TIMING PULSE

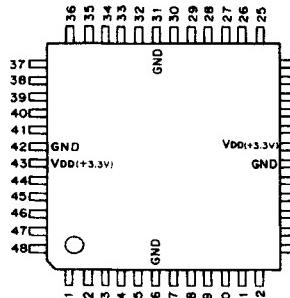
  

OUTPUT	
1	OCF : COLOR FRAMING DATA
2	ODATA0-ODATA9 : 4:2:2 PARALLEL DATA
3	OHD : HD
4	OPA : PARITY DATA
5	ODV : VD
6	SOUT : SERIAL COMMUNICATION DATA
7	TDO : SMART CHECK TERMINAL



## CXD304-106Q (SONY)

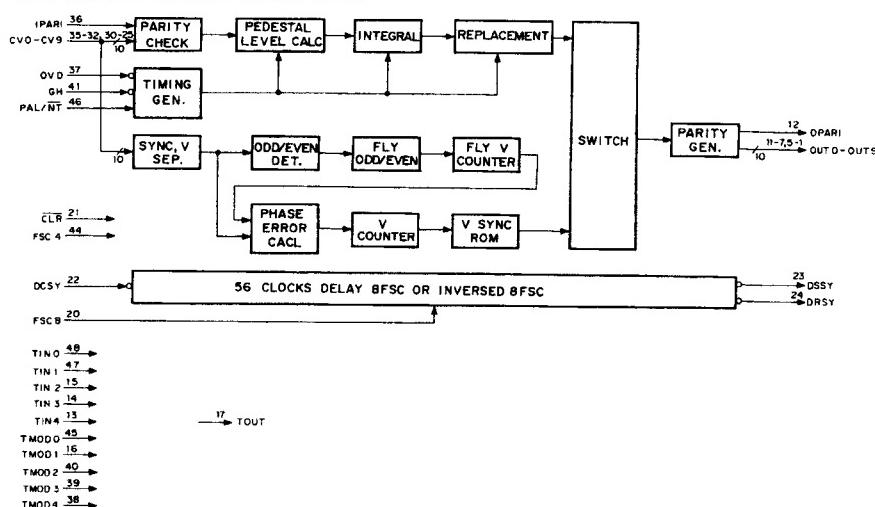
C-MOS 10-BIT PEDESTAL LEVEL REPLACEMENT OF COMPOSITE SIGNAL  
- TOP VIEW -



PIN No.	I/O	SIGNAL									
1	O	OUT9	13	I	TIN4	25	I	CV9	37	I	OVD
2	O	OUT8	14	I	TIN3	26	I	CV8	38	I	TMOD4
3	O	OUT7	15	I	TIN2	27	I	CV7	39	I	TMOD3
4	O	OUT6	16	I	TMOD1	28	I	CV6	40	I	TMOD2
5	O	OUT5	17	O	TOUT	29	I	CV5	41	I	GH
6	-	GND	18	-	GND	30	I	CV4	42	-	GND
7	O	OUT4	19	-	Vdd	31	-	GND	43	-	Vdd
8	O	OUT3	20	I	FSC8	32	I	CV3	44	I	FSC4
9	O	OUT2	21	I	CLR	33	I	CV2	45	I	TMODO
10	O	OUT1	22	I	DSSY	34	I	CV1	46	I	PAL/NT
11	O	OUT0	23	O	DSSY	35	I	CV0	47	I	TIN1
12	O	OPARI	24	O	DSSY	36	I	IPARI	48	I	TIN0

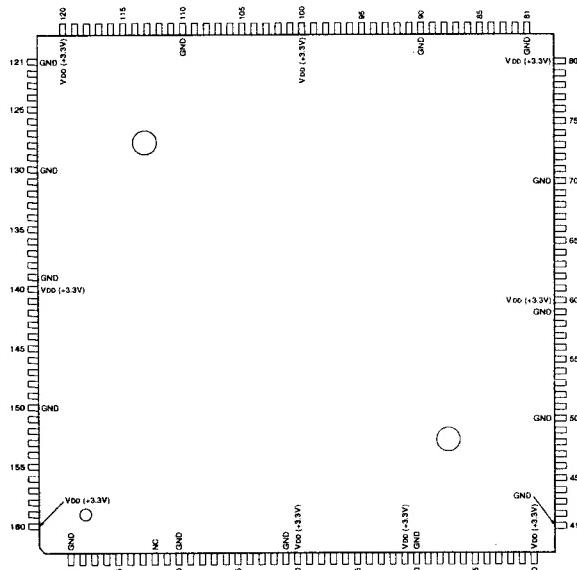
INPUT	
CLR	: POWER ON RESET
CV0 - CV9	: 10-BIT COMPOSITE DATA
DSSY	: ANALOG SYNC
FSC8	: 4fsc CLOCK
FSC4	: 8fsc CLOCK
GH	: GH (GATED H) FROM CXD8819AQ
IPARI	: PARITY OF INPUT DATA
OVD	: OUTPUT VD FROM CXD8819AO
PAL/NT	: H - PAL, L : NTSC
TIN0 - TIN4	: TEST PIN : OPEN
TMOD0 - TMOD4	: TEST PIN : OPEN
OUT	
DRSY	: ANALOG DELAYED SYNC (8fsc : 56-CLOCK)
DSSY	: ANALOG DELAYED SYNC (8fsc : 56-CLOCK)
OPARI	: PARITY OF OUTPUT DATA
OUT0 - OUT9	: 10-BIT COMPOSITE DATA
TOUT	: TEST PIN
OUTPUT	
DRSY	
DSSY	
OPARI	
TOUT	

## INPUT COMPOSITE VIDEO (From DIGITAL FILTER)



## CXD306-138Q (SONY)

C-MOS DATA RATE CONVERTER  
—TOP VIEW—



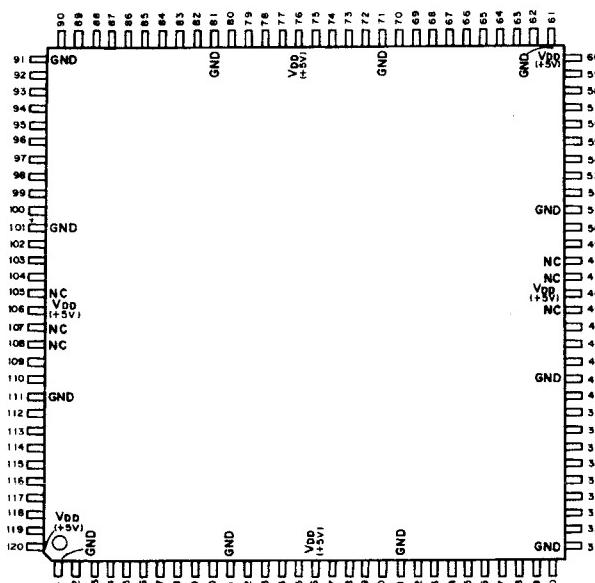
PIN No.	I/O	SIGNAL									
1	-	GND	41	-	GND	81	-	GND	121	-	GND
2	I	ENSP	42	I	SELB	82	I	RBD04	122	I	CK32
3	I	SVEN	43	O	PACS	83	I	RBD03	123	I	RDSEL
4	I	RAES	44	I	PCDH	84	I	RBD02	124	I	H625
5	I	MEN	45	I	PDDH	85	I	RBD01	125	I	CCLR
6	I	EGEN	46	I	PCCG	86	I	RBD00	126	I	A2
7	I	EE	47	I	PDCG	87	O	VC1B	127	I	A1
8	-	NC	48	I	PCBF	88	O	VC1C	128	I	A0
9	I	SSTART	49	I	PDBF	89	O	OEC	129	I	POR
10	-	GND	50	-	GND	90	-	GND	130	-	GND
11	I	SCK	51	I	PCEA	91	I	RC00	131	O	OUTCK
12	I	SDIN	52	I	PDAE	92	I	RC01	132	O	SOUT
13	O	SDOUT	53	O	VC0A	93	I	RCD2	133	I	ENPT
14	I	REC	54	O	WACK	94	I	RC03	134	I	ENCP
15	O	WE1	55	O	WADA	95	I	RC04	135	I	EBD3
16	O	WE2	56	O	WAD3	96	O	OEG	136	I	EBD2
17	O	RAEN	57	O	WAD2	97	O	WCD0	137	I	EBD1
18	O	RAEX	58	O	WADI	98	O	WCD1	138	I	EBD0
19	-	GND	59	-	GND	99	O	WCD2	139	-	GND
20	-	VDD	60	-	V00	100	-	Vdd	140	-	V00
21	O	RAEY	61	O	WAD0	101	O	WC03	141	I	EAC3
22	O	RBFX	62	O	VC2A	102	O	WC04	142	I	EAC2
23	O	RBFY	63	O	OEE	103	O	WC0C	143	I	EAC1
24	O	RCGX	64	O	RCK	104	O	VC0C	144	I	EAC0
25	O	RCGY	65	I	RAD4	105	O	VC1D	145	O	PBDP
26	O	RDHX	66	I	RAD3	106	I	RDD0	146	O	PBD3
27	O	RDHY	67	I	RAD2	107	I	RDD1	147	O	PBD2
28	O	MPX	68	I	RAD1	108	I	RDD2	148	O	PBD1
29	-	VDD	69	I	RAD0	109	I	RDD3	149	O	PBD0
30	-	GND	70	-	GND	110	-	GND	150	-	GND
31	O	MPXCK	71	O	OEA	111	I	RDD4	151	O	MO16
32	I	SEL8	72	O	VC1A	112	O	WDD0	152	O	PACP
33	I	SEL9	73	O	VC0B	113	O	WDD1	153	O	PAC3
34	I	SELA	74	O	WBCK	114	O	WDD2	154	O	PAC2
35	I	TCK	75	O	WBD4	115	O	WDD3	155	O	PAC1
36	I	TDI	76	O	WBD3	116	O	WDD4	156	O	PAC0
37	I	TENA1	77	O	WBD2	117	O	WDCK	157	I	SPLS
38	O	TDO	78	O	WBD1	118	O	VC0D	158	I	SCEN
39	-	VST	79	O	WBD0	119	I	TEST	159	I	SAEN
40	-	VDD	80	-	V00	120	-	Vdd	160	-	V00

INPUT	IC ADDRESS
A0-A2	COUNTER CLEAR
68	32MHz CLOCK
67	ENCODE A/C DATA
66	ENCODE B/D DATA
65	ENCODER START PULSE
64	H625 MODE
63	BYPASS
62	EDIT GAP ENABLE
61	ENCP
60	ENCP
59	ENPT
58	ENSP
57	ENSP
56	ENSP
55	ENSP
54	ENSP
53	EE
52	ED0
51	ED0
50	ED0
49	ED0
48	ED0
47	ED0
46	ED0
45	ED0
44	ED0
43	ED0
42	ED0
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9	ED0
8	ED0
7	ED0
6	ED0
5	ED0
4	ED0
3	ED0
2	ED0
1	ED0
0	ED0
121	MPX
120	PCAE
119	PCBF
118	PCCG
117	PCDH
116	PDAE
115	PDBF
114	PDDH
113	PDT
112	PDR
111	PDR
110	PDR
109	PDR
108	PDR
107	PDR
106	PDR
105	PDR
104	PDR
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6	PDR
5	PDR
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53	

CXD8280AQ (SONY)

## C-MOS DIGITAL AUDIO TIME BASE EXPANSION FOR SIF RECEIVER

- TOP VIEW -



(VDD = +5V)											
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	-	GND	31	-	GND	61	-	GND	91	-	GND
2	IU	IT1	32	OT	C3/4	62	IU	OECRD	92	IU	AUX0 (LSB)
3	IU	CLR	33	OT	C1/2	63	IU	CRA0 (LSB)	93	IU	AUX1
4	OT	DLY5 (MSB)	34	OT	U3/4	64	IU	CRA1	94	IU	AUX2
5	OT	DLY4	35	OT	U1/2	65	IU	CRA2	95	IU	AUX3
6	OT	DLY3	36	OT	V3/4	66	IU	CRA3	96	IU	AUX4
7	OT	DLY2	37	OT	V1/2	67	IU	CRA4	97	IU	AUX5
8	OT	DLY1	38	OT	AD3/4	68	IU	CRA5	98	IU	AUX6
9	OT	DLY0 (LSB)	39	OT	AD1/2	69	IU	CRA6 (MSB)	99	IU	AUX7
10	IU	OEDLY	40	ID	OEAD	70	IU	CREN	100	IU	AUX8
11	-	GND	41	-	GND	71	-	GND	101	-	GND
12	IU	IT2	42	ID	BCK	72	O	ERR1	102	IU	AUX9 (MSB)
13	IU	IT3	43	IU	LRCK	73	O	ERR2	103	IU	ADFT
14	IU	IT4	44	O	OT2	74	O	ERR3	104	IU	10/9
15	IU	IT5	45	-	NC	75	O	ERR4	105	-	NC
16	-	Vdd	46	-	Vdd	76	-	Vdd	106	-	Vdd
17	IU	MUTE4	47	-	NC	77	O	EXT1	107	-	NC
18	IU	MUTE3	48	-	NC	78	O	EXT2	108	-	NC
19	IU	MUTE2	49	IU	IT6	79	O	EXT3	109	IU	TRS
20	IU	MUTE1	50	IU	CRCK	80	O	EXT4	110	ID	VCK
21	-	GND	51	-	GND	81	-	GND	111	-	GND
22	IU	CHEX1	52	OT	CRD7 (MSB)	82	OT	DIDPER	112	IU	D2/D1
23	IU	CHEX0	53	OT	CRD6	83	OT	DIDERR	113	IU	DID1
24	IU	AFS	54	OT	CRD5	84	OT	DBNPER	114	IU	DIDO
25	IU	LRS	55	OT	CRD4	85	OT	DBNERR	115	IU	ERDB
26	IU	DIR	56	OT	CRD3	86	OT	DCPERR	116	IU	IT7
27	IU	20/16	57	OT	CRD2	87	OT	DCERR	117	IU	IT8
28	O	OT1	58	OT	CRD1	88	OT	UDPER	118	O	OT3
29	OT	Z3/4	59	OT	CRD0 (LSB)	89	OT	CSERR	119	O	WRDL
30	OT	Z1/2	60	OT	Vdd	90	IU	OEEFR	120	-	Vdd

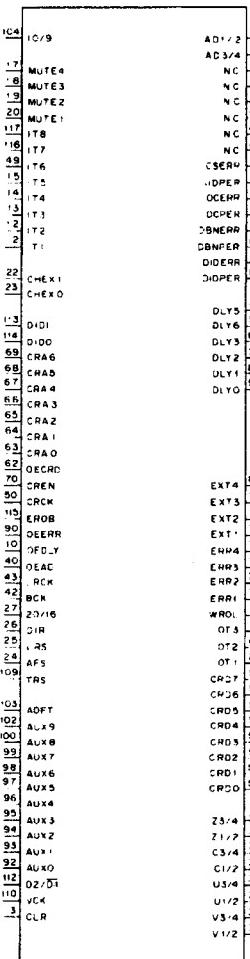
IU : INPUT WITH PULL-UP REGISTER  
ID : INPUT WITH PULL-DOWN REGISTER  
OT : TRI-STATE OUTPUT

**INPUT (WITH PULL-DOWN REGISTER)**  
BCK : DIGITAL AUDIO BIT CLOCK (= 64 x Fs)  
OEAD : OUTPUT ENABLE FOR PINS 29 THROUGH 39 (L)

INPUT (WITH PULL-UP REGISTER)	
10_9	: INPUT AUX DATA 10-BIT/9-BIT MODE SELECT
20_16	: DIGITAL AUDIO 20-BIT/16-BIT SELECT
ADFT	: AUX. DATA FLAG TIMING
AFS	: DIGITAL AUDIO FORMAT SELECT
CXEC1	: CHANNEL EXCHANGE 1
AUX9 - AUX9	: AUX. DATA 9-BIT
0HEX0_1	: CHANNEL EXCHANGE 0.1
CLR	: POWER ON CLEAR (L)
CRA0 - CRA6	: CHANNEL STATUS READ ADDRESSO - 6
CRCK	: CHANNEL STATUS READ ADDRESS WRITE CLOCK
CREN	: CHANNEL STATUS READ ADDRESS WRITE ENABLE (L)
D2_0/D1	: VIDEO FORMAT D2/D1 SELECT
DDID0_1	: DATA ID BIT 0.1
DIR	: DIGITAL AUDIO MSB FIRST/LSB FIRST SELECT
EROB	: ERROR OVERRIDE FOR CIRCUIT DEBUG
IT1 - 8	: TEST (L)
LRCX	: DIGITAL AUDIO L/R CLOCK (= F <sub>s</sub> )
LRS	: DIGITAL AUDIO LEFT/RIGHT BIT POSITION SELECT
MUTE1 - MUTE4	: DIGITAL AUDIO CH1 - CH4 MUTE (L)
OCDR0	: OUTPUT ENABLE FOR CRD0-7
OEDLY	: OUTPUT ENABLE FOR DL0-Y-5 (L)
OEERR	: OUTPUT ENABLE FOR PINS 82 THROUGH 89
TRS	: VIDEO H-SYNC

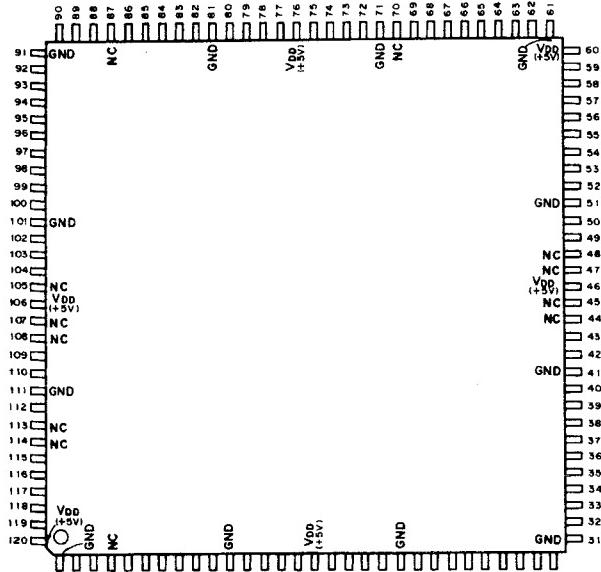
<b>OUTPUT</b>	
ERR1 - ERR4	: DIGITAL AUDIO CH1 - CH4 ERROR (L)
EXT1 - EXT4	: DIGITAL AUDIO CH1 - CH4 EXIST
OT1	: TEST (MEMORY READ)
OT2	: TEST (READ CLEAR)
OT3	: TEST (MEMORY WRITE)
WRDL	: TEST (WRITE/READ DELAY)

<b>OUTPUT (TRI-STATE)</b>	
AD1/2	DIGITAL AUDIO CH1-/2 DATA
AD3-/4	DIGITAL AUDIO CH3-/4 DATA
C1/2	DIGITAL AUDIO CH1-/2 CHANNEL STATUS BIT
C3-/4	DIGITAL AUDIO CH3-/4 CHANNEL STATUS BIT
CRD0 - CRD7	CHANNEL STATUS READ DATA0 - 7
CSERR	CHECK SUM ERROR (L)
DBNERR	DBN UNCONTINUITY ERROR (L)
DBNPER	DBN PARITY ERROR (L)
DCERR	DC UNMATCH ERROR (L)
DCPER	DC PARITY ERROR (L)
DIDERR	DID UNMATCH ERROR (L)
DIDPER	DID PARITY ERROR (L)
DLI - DLY5	SAMPLE DELAY INDICATOR BIT0 - 5
U1-/2	DIGITAL AUDIO CH1-/2 USER DATA BIT
U3-/4	DIGITAL AUDIO CH3-/4 USER DATA BIT
UDPER	UDI PARITY ERROR (L)
V1-/2	DIGITAL AUDIO CH1-/2 VALIDITY FLAG
V3-/4	DIGITAL AUDIO CH3-/4 VALIDITY FLAG
Z1-/2	DIGITAL AUDIO CH1-/2 BLOCK SYNC (Z-FLAG)
Z3-/4	DIGITAL AUDIO CH3-/4 BLOCK SYNC (Z-FLAG)



## CXD8281Q (SONY) FLAT PACKAGE

C-MOS DIGITAL AUDIO TIME BASE COMPRESSION FOR SIF TRANSMITTER  
—TOP VIEW—



(Vdd = +5V)								
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	-	VSS	31	-	GND	61	-	GND
2	IU	IT1	32	ID	C3/4	62	IU	CWA0 (LSB)
3	IU	CLR	33	ID	C1/2	63	IU	CWA1
4	-	NC	34	ID	U3/4	64	IU	CWA2
5	O	OT1	35	ID	U1/2	65	IU	CWA3 (MSB)
6	O	OT2	36	ID	V3/4	66	IU	CWEN
7	O	OT3	37	ID	V1/2	67	IU	IT3
8	O	OT4	38	ID	AD3/4	68	IU	IT4
9	O	OT5	39	ID	AD1/2	69	IU	IT5
10	O	OT6	40	ID	BCK	70	-	NC
11	-	GND	41	-	GND	71	-	GND
12	O	OT7	42	ID	128CK	72	IU	DIDO
13	O	OT8	43	IU	LRCK	73	IU	DID1
14	O	OT9	44	-	NC	74	IU	LIM0
15	O	OT10	45	-	NC	75	IU	LIM1
16	-	Vdd	46	-	Vdd	76	-	Vdd
17	O	OT11	47	-	NC	77	IU	CHS1
18	O	OT12	48	-	NC	78	IU	CHS2
19	O	OT13	49	IU	IT2	79	IU	CHS3
20	O	OT14	50	IU	CWCK	80	IU	CHS4
21	-	GND	51	-	GND	81	-	GND
22	IU	CHEX1	52	IU	CWD7 (MSB)	82	IU	DLY0 (LSB)
23	IU	CHEX0	53	IU	CWD6	83	IU	DLY1
24	IU	AFS	54	IU	CWD5	84	IU	DLY2
25	IU	LRS	55	IU	CWD4	85	IU	DLY3
26	IU	DIR	56	IU	CWD3	86	IU	DLY4 (MSB)
27	IU	20/16	57	IU	CWD2	87	-	NC
28	IU	ZCS	58	IU	CWD1	88	O	AUXT
29	ID	Z3/4	59	IU	CWD0 (LSB)	89	O	UDT
30	ID	Z1/2	60	-	Vdd	90	O	ADFT

IU : INPUT WITH PULL-UP REGISTER  
ID : INPUT WITH PULL-DOWN REGISTER  
OT : TRI-STATE OUTPUT

**INPUT (WITH PULL-DOWN REGISTER)**

- 128CK : DIGITAL AUDIO 128 × Fs CLOCK
- AD1/2 : DIGITAL AUDIO CH1/2 DATA
- AD3/4 : DIGITAL AUDIO CH3/4 DATA
- BCK : DIGITAL AUDIO BIT CLOCK (= 64 × Fs)
- C1/2 : DIGITAL AUDIO CH1/2 CHANNEL STATUS BIT
- C3/4 : DIGITAL AUDIO CH3/4 CHANNEL STATUS BIT
- OEAX : OUTPUT ENABLE FOR AUX0~9 (L)
- U1/2 : DIGITAL AUDIO CH1/2 USER DATA BIT
- U3/4 : DIGITAL AUDIO CH3/4 USER DATA BIT
- V1/2 : DIGITAL AUDIO CH1/2 VALIDITY FLAG
- V3/4 : DIGITAL AUDIO CH3/4 VALIDITY FLAG
- VCK : VIDEO CLOCK (= 4Fs) INPUT
- Z1/2 : DIGITAL AUDIO CH1/2 BLOCK SYNC (Z-FLAG)
- Z3/4 : DIGITAL AUDIO CH3/4 BLOCK SYNC (Z-FLAG)

**INPUT (WITH PULL-UP REGISTER)**

- 20/16 : DIGITAL AUDIO 20BIT/16BIT SELECT
- AFS : DIGITAL AUDIO FORMAT SELECT
- CHEX0,1 : CHANNEL EXCHANGE 0,1
- CHS1~CHS4 : AUDIO CH1 - CH4 OUTPUT SELECT (L)
- CLR : POWER ON CLEAR (L)
- CWA0~CWA3 : CHANNEL STATUS REGISTER WRITE ADDRESS 0~3
- CWD0~CWD3 : CHANNEL STATUS REGISTER WRITE CLOCK
- CWD6~CWD7 : CHANNEL STATUS REGISTER WRITE DATA 0~7
- CWEN : CHANNEL STATUS REGISTER WRITE ENABLE
- D2/D1 : VIDEO FORMAT D2/D1 SELECT
- DID0,1 : DATA ID BIT0,1
- DIR : DIGITAL AUDIO MSB FIRST/LSB FIRST SELECT
- DLY0~DLY4 : DELAY CONTROL BIT0~BIT3 TEST (L)
- IT1~IT5 : LINE MODE 0,1
- LRCK : DIGITAL AUDIO L/R CLOCK (= Fs)
- LRS : DIGITAL AUDIO LEFT/RIGHT BIT POSITION SELECT
- SYNC : VIDEO SYNC INPUT
- ZCS : DIGITAL AUDIO Z-FLAG C-BIT SELECT

**OUTPUT**

- ADBT : AUX. DATA BLOCK TIMING
- ADFT : AUX. DATA FLAG TIMING
- AUXT : AUX. DATA TIMING
- OT1~OT19 : TEST
- UDT : USER DATA TIMING

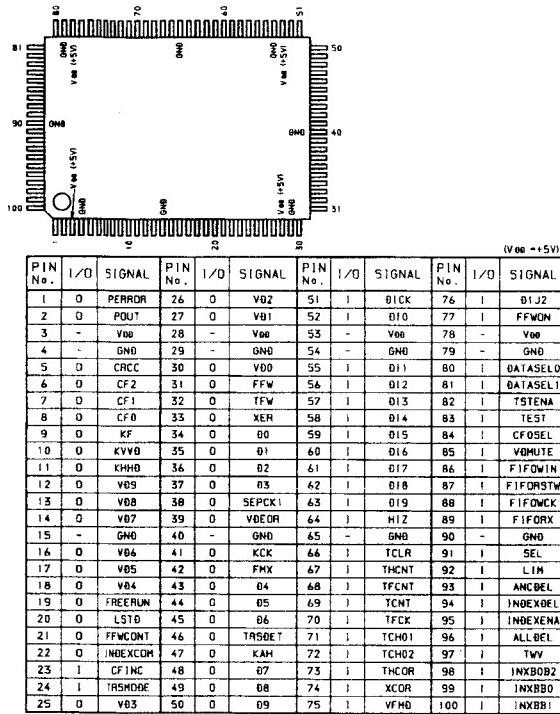
**OUTPUT (TRI-STATE)**

AUX0~AUX9 : AUX. DATA 0~9

80	CH54		
79	CH53		
78	CH52		
77	CH51		
22	CHFX1		
23	CHEX0		
73	DI01		
72	DI00		
12	D2/D1		
86	DLY4		
85	DLY3		
84	DLY2		
83	DLY1		
82	DLY0		
84	OEAX		
69	IT5		
68	IT4		
67	IT3		
49	IT2		
2	IT1		
29	Z3/4		
30	Z1/2		
32	C3/4		
33	C1/2		
34	US3/4		
35	US1/2		
36	V3/4		
37	V1/2		
28	ZCS		
27	20/16		
26	DIR		
25	LRS		
24	AFS		
39	AD1/2		
38	AD3/4		
43	LRCK		
42	128CK		
40	BCK		
73	LIM1		
74	LIM0		
32	CW07		
33	CW06		
54	CW05		
55	CW04		
56	CW03		
57	CW02		
58	CW01		
59	CW00		
65	CWA3		
64	CWA2		
63	CWA1		
62	CWA0		
66	CWEN		
50	CWCK		
10	IVCK		
3	CLN		
109	SYNC		

## CXD8386AQ (SONY)

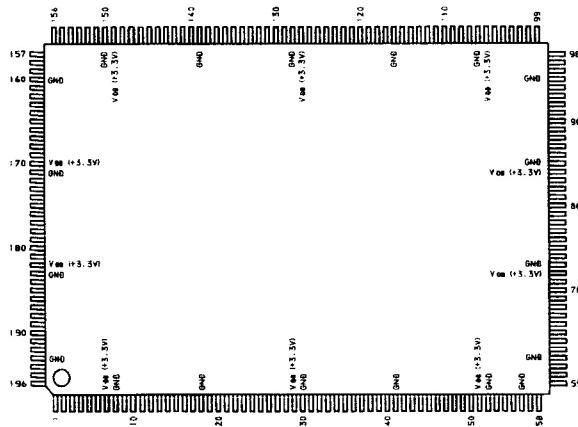
C-MOS 4:2:2 COMPONENT DECODER  
TOP VIEW -



INPUT	DEFINITION
ALLDEI	: DELETE CONTROL FOR BETWEEN EAV AND SAV
ANCDEL	: ANC DELITE CONTROL
CF0SEL	: CF0 SELECT
CFINC	: CF INC INCREMENT CONTROL
B1J2	: MODE SELECT
DATASEL0	: DO-09 DATA CONTROL
B1D-9	: VIDEO DATA BUS
BICK	: 27MHz CLOCK
FFWON	: SYNCHRONIZE SYSTEM FLYWHEEL/DIRECT SELECT
FIFORSTW	: FIFORX, FIFOWCK, FIFOWIN
-	: SELF-DIAGNOSIS
HIZ	: OUTPUT SYSTEM HI-IMPEDANCE CONTROL
INDEXDEL	: INDEX DELITE CONTROL
INDEXENA	: INDEX ENABLE CONTROL
INXBB02	: INDEX CONTROL
INXBB01	: MOTOR CONTROL
LIM	: LIMITER ON/OFF CONTROL
SEL	: LIMITER MODE SELECT
TCH01-02	: TCLR, TCNT, TFCK, TFCNT, THC01, THC02, TSTENA
-	: FOR TEST
TRSMODE	: TRS DETECT MODE SELECT
TVW	: NOT CONSECUTIVE DETECT CONTROL
VOMUTE	: MUTE CONTROL
VFM0	: 525V Hysteresis Process
XCOR	: TRS XY-BYTE PROCESS
OUTPUT	DEFINITION
CF0-2	: COLOR FRAME
CRCC	: CLASS 2-1CRCC/CF0/RODET
DD-9	: INTERNAL DATA INFORMATION
FFW	: FLYWHEEL STATUS
FFWCNT	: FLY/DIRECT SYNCHRONIZE SELECT CONTROL
TCNT	: IF COUNTER PULSE STATE
TFCK	: ERROR STATUS OF INX FOUR CONSECUTIVE TIMES
TCH01	: INDEXCOM : COMPOSITE/COMPONENT SIGNAL
TCH02	: ANALOG SYNCHRONIZE
THC01	: 11.3MHz CLOCK
THC02	: KF
THC03	: KHHD
THC04	: KVHD
THC05	: KVBD
THC06	: LST0
THC07	: 525/625 DETECT
THC08	: INDEXEN : INDEX/COMPONENT SIGNAL
THC09	: PARITY DETECT
THC10	: SEL-DECODE
THC11	: VDEOR
THC12	: VOUT
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## CXD8382BQ (SONY)

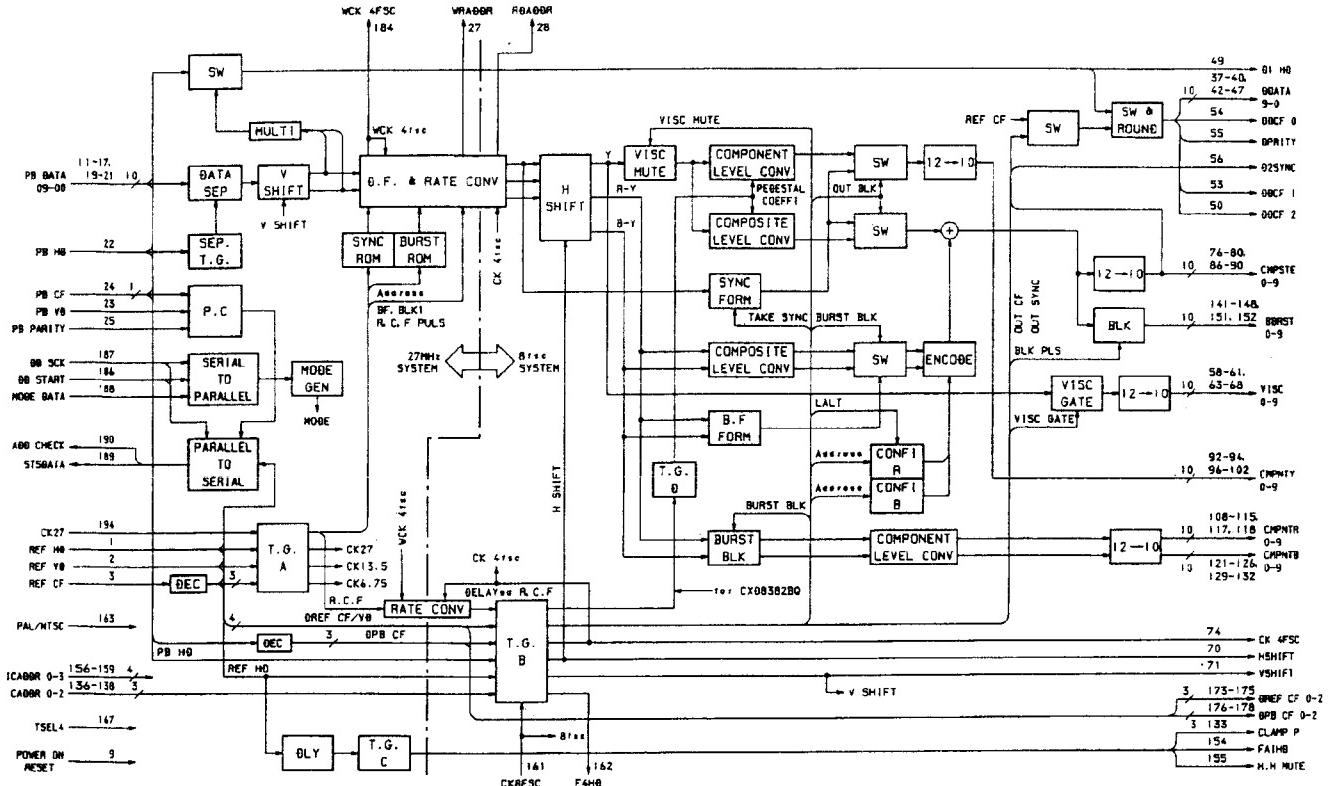
C-MOS DIGITAL ENCODER  
-TOP VIEW -



INPUT	
CA00R 0-2	:SCH SETUP OF OUTPUT SIGNAL
CK_BFSC	:STANDARD CLOCK FOR B1** MODE
CK27	:STANDARD CLOCK FOR 27MHz MODE
00_SCK	:CLOCK FOR SERIAL COMMUNICATION BETWEEN MICROCOMPUTER
00_START	:STATUS PULSE FOR SERIAL COMMUNICATION BETWEEN MICROCOMPUTER
ICA00P 0-3	:ADDRESS AUTHORIZE
MODE_DATA	:DATA FOR SERIAL COMMUNICATION BETWEEN MICROCOMPUTER
PALNTSC	:INITIAL SETUP
PB_CF	:COLOR FRAME (3-BIT) OF IMAGE DATA
PB_DATA_00-09	:IMAGE DATA
PB_H0	:H0 OF IMAGE DATA
PB_V0	:V0 OF IMAGE DATA
PB_PARITY	:PARITY BIT OF IMAGE DATA
POWER_ON_RESET	:RESET TERMINAL
REF_CF	:COLOR FRAME OF REFERENCE
REF_H0	:H0 OF REFERENCE
REF_V0	:V0 OF REFERENCE
OUTPUT	
A00_CHECK	:CLOCK FOR SERIAL COMMUNICATION RECEIVE CHECK BETWEEN MICROCOMPUTER
BBRST_0-9	:DIGITAL DATA FOR BLACK BURST
CK_4FSC	:4** CLOCK AT B1** COUNT DOWN
CLAMP_P	:CLAMP PULSE
CMPNTB_0-9	:COMPONENT B DIGITAL DATA
CMPNTR_0-9	:COMPONENT R DIGITAL DATA
CMPNTY_0-9	:COMPONENT Y DIGITAL DATA
CMPSTE_0-9	:COMPOSITE DIGITAL DATA
00DATA_0-9	:IMAGE DATA AT 01 OUTPUT MODE, 02 DATA AT B2 OUTPUT MODE
D1_PARITY	:PARITY BIT FOR DIGITAL DATA
01_H0	:H0 OF 27MHz SYNC PHASE AGREE WITH 00DATA
00CF_0	:ON THE BIT0 OF COLOR FRAME AT 01 AND 02 OUTPUT MODE
00CF_1	:COLOR FRAME (3-BIT) AT 01 OUTPUT MODE, ON THE BIT1 OF COLOR FRAME AT 02 OUTPUT MODE
00CF_2	:ON THE BIT2 OF COLOR FRAME AT 02 OUTPUT MODE
0PBF_CF_0-2	:PBF CF DECODED DATA
0REF_CF_0-2	:REF CF DECODED DATA
F4_H0	:H0 MAKE OF 4**
FA1H0	:H0 OF 27MHz SYNC PHASE AGREE WITH ANALOG DATA
H_H_MUTE	:MAKE GATE FA1H0
HSHIFT	:H SHIFT MODE
R0A0DR	:FIFO READ ADDRESS MSB DATA FOR RATE CONVERT
STSDATA	:RESPONSE FOR SERIAL COMMUNICATION BETWEEN MICROCOMPUTER
VSHIFT	:V SHIFT MODE
V1SC_0-9	:V1SC DIGITAL DATA
WCKAFSC	:4** CLOCK FOR RATE CONVERT
WRAM0	:FIFO WRITE ADDRESS MSB DATA FOR RATE CONVERT

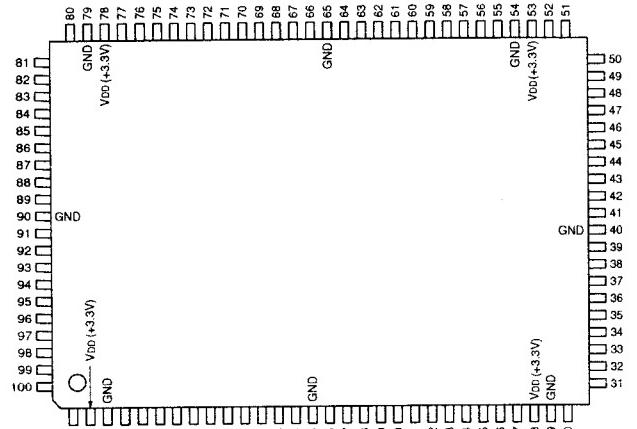
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	REF_H0	41	-	GND	81	-	*	121	O	CMPNTB_0	141	I	CKBFSC
2	I	REF_V0	42	O	00DATA_5	82	I	T04	122	O	CMPNTB_1	142	O	F4H0
3	I	REF_CF	43	O	00DATA_4	83	I	T05	123	O	CMPNTB_2	143	I	PALNTSC
4	I	T00	44	O	00DATA_3	84	-	V00	124	O	CMPNTB_3	144	I	TSEL_1
5	I	T01	45	O	00DATA_2	85	-	GND	125	O	CMPNTB_4	145	I	TSEL_2
6	I	T02	46	O	00DATA_1	86	O	CMPSTE_5	126	O	CMPNTB_5	146	I	TSEL_3
7	-	Y00	47	O	00DATA_0	87	O	CMPSTE_6	127	-	Y00	147	I	MUTE/TSEL4
8	-	GND	48	I	T12	88	O	CMPSTE_7	128	-	GND	148	I	TSEL_5
9	I	POWER_ON_RESET	49	O	01_H0	89	O	CMPSTE_8	129	O	CMPNTB_6	149	I	TSEL_6
10	I	T26	50	O	00CF_2	90	O	CMPSTE_9	130	O	CMPNTB_7	150	-	V00
11	I	PB DATA_09	51	-	Y00	91	I	T14	131	O	CMPNTB_8	151	-	GND
12	I	PB DATA_08	52	-	GND	92	O	CMPNTY_0	152	O	CMPNTB_9	152	I	TSEL_7
13	I	PB DATA_07	53	O	00CF_1	93	O	CMPNTY_1	153	O	CLAMP_P	173	O	0REF_CF_0
14	I	PB DATA_06	54	O	00CF_0	94	O	CMPNTY_2	154	I	T22	174	O	0REF_CF_1
15	I	PB DATA_05	55	O	0PRITY	95	-	GND	155	I	T23	175	O	0REF_CF_2
16	I	PB DATA_04	56	O	02SYNC	96	O	CMPNTY_3	156	I	CAB0R_0	176	O	0PB_CF_0
17	I	PB DATA_03	57	I	T13	97	O	CMPNTY_4	157	I	CAB0R_1	177	O	0PB_CF_1
18	-	GND	58	O	V1SC_0	98	O	CMPNTY_5	158	I	CAB0R_2	178	O	0PB_CF_2
19	I	PB DATA_02	59	O	V1SC_1	99	O	CMPNTY_6	159	-	GND	179	I	T33
20	I	PB DATA_01	60	O	V1SC_2	100	O	CMPNTY_7	160	I	T24	180	I	T34
21	I	PB DATA_00	61	O	V1SC_3	101	O	CMPNTY_8	161	O	BBRST_0	181	I	T26
22	I	PB_H0	62	-	GND	102	O	CMPNTY_9	162	O	BBRST_1	182	-	V00
23	I	PB_V0	63	O	V1SC_4	103	I	T17	163	O	BBRST_2	183	-	GND
24	I	PB_CF	64	O	V1SC_5	104	I	T18	164	O	BBRST_3	184	O	WCKAFSC
25	I	PB_PARITY	65	O	V1SC_6	105	-	V00	165	O	BBRST_4	185	I	T27
26	I	T05	66	O	V1SC_7	106	-	GND	166	O	BBRST_5	186	I	0REF_START
27	O	WRA0DR	67	O	V1SC_8	107	I	T19	167	O	BBRST_6	187	I	0_SCK
28	O	WRA0DR	68	O	V1SC_9	108	O	CMPNTY_0	168	O	BBRST_7	188	I	0_REF DATA
29	-	V00	69	I	T14	109	O	CMPNTY_1	169	-	Y00	189	O	STSBATA
30	-	GND	70	O	MSHIFT	110	O	CMPNTY_2	170	-	GND	190	O	A0B_CHECK
31	I	T06	71	O	VSHIFT	111	O	CMPNTY_3	171	O	BBRST_8	191	I	T29
32	I	T07	72	-	V00	112	O	CMPNTY_4	172	O	BBRST_9	192	I	T30
33	I	T08	73	-	GND	113	O	CMPNTY_5	173	I	T25	193	-	GND
34	I	T09	74	O	CK_4FSC	114	O	CMPNTY_6	174	O	FA1H0	194	I	CK27
35	I	T10	75	I	T15	115	O	CMPNTY_7	175	O	H_H_MUTE	195	I	T31
36	I	T11	76	O	CMPSTE_0	116	-	GND	176	I	CAB0R_0	196	I	T32
37	O	00DATA_9	77	O	CMPSTE_1	117	O	CMPNTA_6	177	I	CAB0R_1			
38	O	00DATA_8	78	O	CMPSTE_2	118	O	CMPNTA_7	178	I	CAB0R_2			
39	O	00DATA_7	79	O	CMPSTE_3	119	I	T20	179	I	CAB0R_3			
40	O	00DATA_6	80	O	CMPSTE_4	120	I	T21	180	-	GND			

\*Connect Pin#1 to the ground.



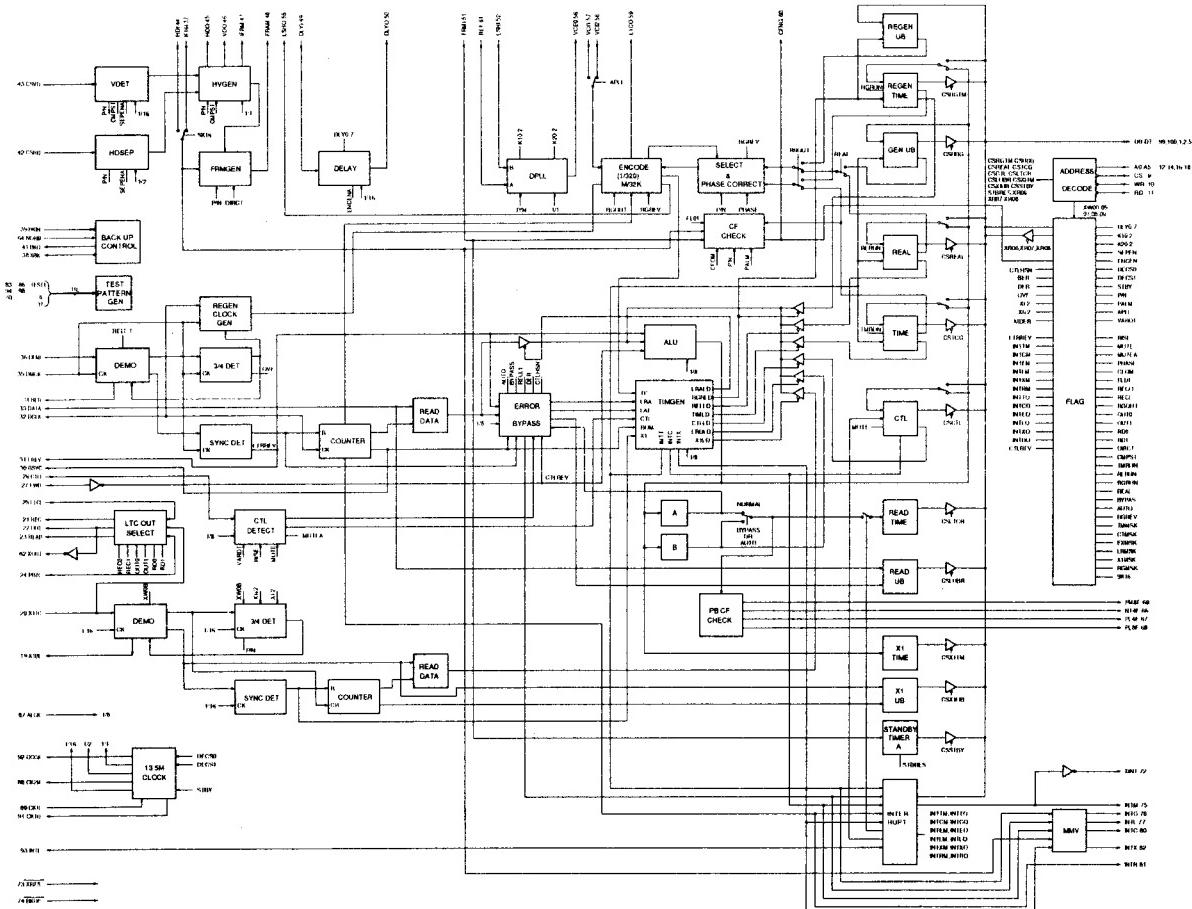
## CXD8384Q (SONY)

C-MOS LTC READER/GENERATOR  
- TOP VIEW -



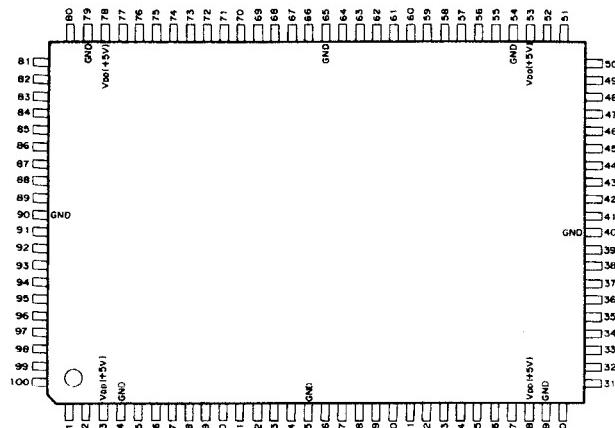
PIN No.	I/O	SIGNAL									
1	I/O	D2	26	I	CTLI	51	I	FRMI	76	O	INTG
2	I/O	D3	27	I	FWD	52	I	LSHI	77	O	INTL
3	-	VDD	28	-	VDD	53	-	VDD	78	-	VDD
4	-	GND	29	-	GND	54	-	GND	79	-	GND
5	I/O	D4	30	O	RSYC	55	O	LSHO	80	O	INTC
6	I/O	D5	31	O	LREV	56	O	VCEO	81	O	INTR
7	I/O	D6	32	O	DCLK	57	I	VCI1	82	O	INTX
8	I/O	D7	33	O	DATA	58	I	VCI2	83	I	TEST1
9	I	CS	34	O	BER	59	O	LTCO	84	I	TEST2
10	I	WR	35	I	DMCK	60	O	CFNG	85	I	TEST3
11	I	RD	36	I	DEMI	61	I	REF	86	I	TEST4
12	I	A0	37	I	K16I	62	O	XOUT	87	I	ALCK
13	I	A1	38	O	XBK	63	O	PORT	88	O	CK2M
14	I	A2	39	I	BKIN	64	I	NORM	89	I	CK1I
15	-	GND	40	-	GND	65	-	GND	90	-	GND
16	I	A3	41	O	BKO	66	O	NT4F	91	O	CK1O
17	I	A4	42	I	CSHD	67	O	PL4F	92	O	DCKK
18	I	A5	43	I	CSV0	68	O	PL8F	93	I	INTE
19	O	X1BE	44	I	HDI	69	O	PM8F	94	I	TEST5
20	I	X1TC	45	O	HDO	70	I	TEST11	95	I	TEST6
21	O	REC	46	O	VDO	71	I/O	LRRV	96	I	TEST7
22	O	OUT	47	O	IFRM	72	O	XINT	97	I	TEST8
23	O	READ	48	O	FRAM	73	I	XRES	98	I	TEST9
24	I	PBTC	49	I	DLYI	74	I	BKUP	99	I/O	D0
25	I	LTCI	50	O	DLYO	75	O	INTM	100	I/O	D1

12	A0	NT4F	66	INPUT
13	A1	PL4F	67	A0-A5 : ADDRESS BUS IN
14	A2	PL8F	68	ALCK : ARITHMETIC LOGIC UNIT CLOCK IN
15	A3	PM8F	69	BKIN : BACKUP IN (NEGATIVE LOGIC)
16	A4			BKUP : BACKUP EXECUTION IN (NEGATIVE LOGIC)
17				CKII : SYSTEM CLOCK IN
18	A5	D0	99	CSHD : COMPOSITE SYNC/H IN
19	CS	D1	100	CSV0 : COMPOSITE SYNC/V IN
20	WR	D2	1	CTL : CTL SIGNAL IN
21		D3	2	DEMI : LONGITUDINAL TIME AND CONTROL CODE IN
22		D4	5	DLYI : INPUT TO DELAY CIRCUIT
23	CSHD	D5	6	DMCK : LTC DEMODULATE CLOCK IN
24	PBTC	D6	7	FRMI : FRAME SIGNAL IN
25	LTCI	D7	8	FWD : CTL DIRECTION SIGNAL IN
26				HDI : HORIZONTAL SYNC INPUT
27				INTE : EXTERNAL INTERRUPT IN (POSITIVE LOGIC)
28				K16I : 16KHz CLOCK IN
29				BACKUP CLOCK IN
30				LRRV : DIRECTION INPUT FOR LTC READER CALCULATION
31				LTCl : GENERATED LTC IN
32				LSHI : LTC SYNCHRONOUS H INPUT
33				NORM : NORMAL/BACKUP MODE SELECT
34				TEST1-TEST9 : TEST IN
35				TEST11 : TEST IN
36				PBTC : PLAYBACK LTC IN
37				RD : READ IN (NEGATIVE LOGIC)
38				REF : REFERENCE OF LTC GENERATOR
39				VCI1 : LTC CLOCK IN-1
40				VCI2 : EXTERNAL LTC IN
41				X1TC : LTC CLOCK IN-2
42				XRES : SYSTEM RESET IN (NEGATIVE LOGIC)
43				WR : WRITE IN (NEGATIVE LOGIC)
44				OUTPUT
45				BER : BI-PHASE MARK ERROR (BIT ERROR)
46				BKO : BACKUP CONTROL OUT-2 (POSITIVE LOGIC)
47				CFNG : COLOR FRAME ERROR FLAG OUT
48				CK10 : SYSTEM CLOCK OUT
49				CK2M : CLOCK 2M OUT
50				CS : CHIP SELECT IN (NEGATIVE LOGIC)
51				D0-D7 : DATA BUS
52				DATA : DEMODULATED SERIAL DATA OUT
53				DCKK : LTC DECODE CLOCK OUT
54				DCLK : DEMODULATED CLOCK OUT
55				DLYO : OUTPUT FROM DELAY CIRCUIT
56				FRAM : FRAME SIGNAL OUT-2
57				HDO : HORIZONTAL SYNC DRIVE OUT
58				IFRM : FRAME SIGNAL OUT-1
59				INTC : CTL INTERRUPT OUT (POSITIVE LOGIC)
60				INTG : GENERATOR INTERRUPT OUT (POSITIVE LOGIC)
61				INTL : READER INTERRUPT -1 (POSITIVE LOGIC)
62				INTM : INTERRUPT MIX OUT (POSITIVE LOGIC)
63				INTR : READER INTERRUPT -2 (POSITIVE LOGIC)
64				INTX : EXTERNAL LTC INTERRUPT OUT (POSITIVE LOGIC)
65				LREV : READ REV/FWD BIT OUT
66				LSHO : LTC SYNCHRONOUS SIGNAL H OUT
67				LTCO : LTC SIGNAL OUT
68				NT4F, PL4F, PL8F, PM8F : DEMODULATED COLOR FRAME OUT
69				OUT : EXTERNAL OUTPUT LTC OUT
70				PORT : PORT
71				READ : READ LTC OUT
72				REC : RECORD LTC OUT
73				RSYC : READ SYNC WORD DATA OUT
74				VCEO : LTC CLOCK OUT
75				VDO : VERTICAL SYNC DRIVE OUT
76				X1BE : BI-PHASE MARK ERROR(NORMAL SPEED READER)
77				XBK : BACKUP CONTROL OUT-1 (NEGATIVE LOGIC)
78				XINT : INVERTED INTERRUPT MIX OUT (NEGATIVE LOGIC)
79				XOUT : INVERTED EXTERNAL OUTPUT LTC OUT



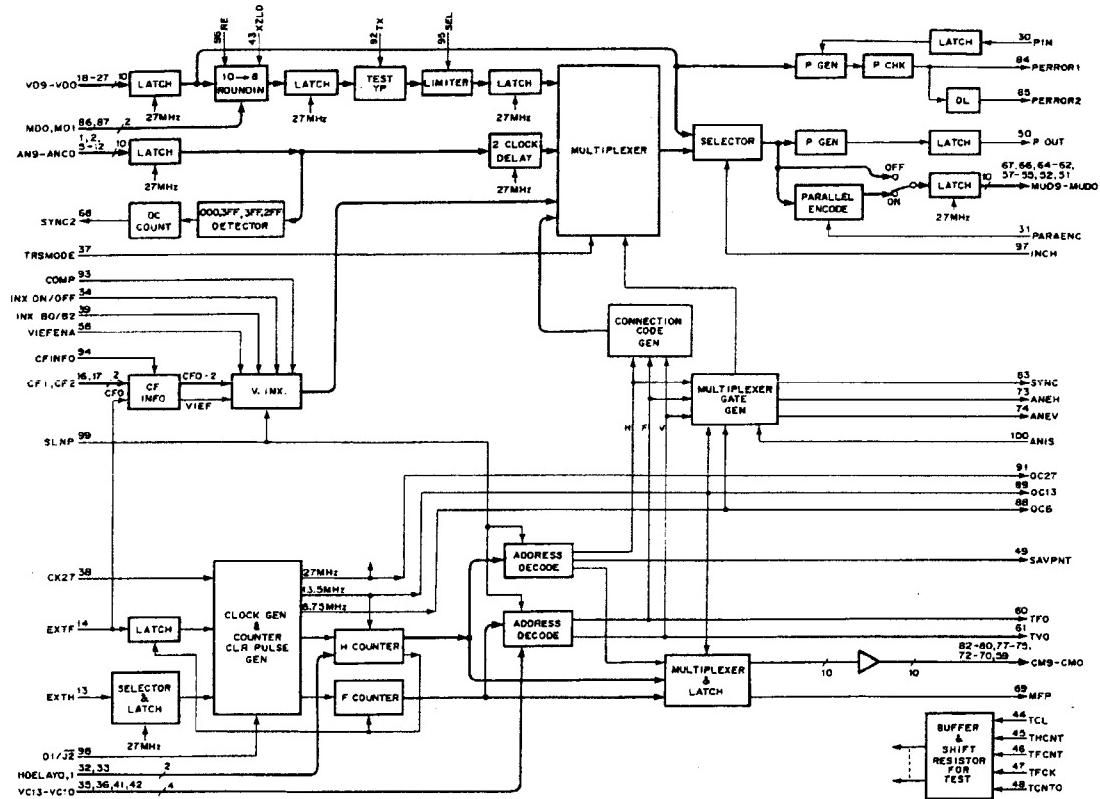
CXD8385Q (SONY)

## C-MOS ENCODER - TOP VIEW -



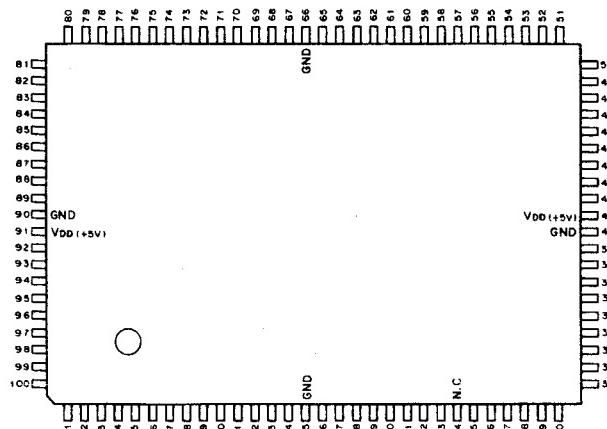
PIN No	I/O	SIGNAL	PIN No	I/O	SIGNAL	PIN No	I/O	SIGNAL	PIN No	I/O	SIGNAL
1	I	ANC9	26	I	VD1	51	O	MUDO	76	O	CMS
2	I	ANCB	27	I	VDO	52	O	MUD1	77	O	CM6
3	-	Vdd	28	-	Vdd	53	-	Vcc	78	-	Vdd
4	-	GND	29	-	GND	54	-	GND	79	-	GND
5	-	ANC7	30	I	PIN	55	O	MUD2	80	O	CM7
6	I	ANC6	31	I	PARAENC	56	O	MUD3	81	O	CM8
7	I	ANC5	32	I	HDELAYO	57	O	MUD4	82	O	CM9
8	I	ANC4	33	I	HDELAY1	58	I	VIEFENA	83	O	SYNC
9	I	ANC3	34	I	INX_ON/OFF	59	O	CM0	84	O	PERROR1
10	I	ANC2	35	I	VC13	60	O	TFO	85	O	PERROR2
11	I	ANC1	36	I	VC12	61	O	TVO	86	I	MDO
12	I	ANCO	37	I	TRS MODE	62	O	MUD5	87	-	MD1
13	X	EXTX	38	I	CK27	63	O	MUD6	88	O	OC6
14	I	EXTF	39	I	INX_BD/B2	64	O	MUD7	89	O	OC13
15	-	GND	40	-	GND	65	-	GND	90	-	GND
16	-	CF1	41	I	VC11	66	O	MUD8	91	O	OC27
17	-	CF2	42	I	VC10	67	O	MUD9	92	I	TX
18	-	VD9	43	I	ZXL2	68	O	SYNC2	93	-	COMP
19	I	VD8	44	I	TCL	69	O	MFP	94	I	CFINFO
20	I	VD7	45	I	THCNT	70	O	CM1	95	I	SEL
21	I	VD6	46	I	TFCNT	71	O	CM2	96	I	RE
22	I	VD5	47	I	TFCK	72	O	CM3	97	I	INCH
23	I	VD4	48	I	TCNT0	73	O	ANEH	98	I	D1/J2
24	I	VD3	49	I	SAVPNT	74	O	ANEV	99	I	SLNP
25	I	VD2	50	O	POUT	75	O	CM4	100	I	ANIS

PIN	PERIOR	INPUT	
84	ANCO - ANC9	ANCILLARY DATA	
85	ANVIS	ANC GATE CONTROL	
86	PERORR2	CF DAT	
87	CF1 / CF2	CF INFO CONTROL	
88	POUT	COMP	
89	CFINFO	COMPOSITE	
90	MUDO	COMPONENT	
91	CK27	27 MHZ CLOCK	
92	MUDI	COMP	
93	CK27	27 MHZ CLOCK	
94	D1 / J2, SLPN	MODE CONTROL	
95	EXTF	REF F	
96	EXTH	REF H	
97	HDELAY1	HDELAY1	
98	VOS	JZ REF H. TRS ADVANCE CONTROL	
99	MUDO	INCH, TCL, TCNTO, TFCK, TFCNT, THCNT, XZLD	
100	MUDI	TEST PIN	
101	W07	INX ON/OFF	
102	MUDI	INX B0 / B2, VIEFENA	
103	W08	V. INX. CONTR.	
104	MUDO	PARAENC	SCRAMBLE NRZ CONVERT ON/OFF
105	V09	PIN	PARITY
106	MDO	RE	ROUND CONTROL
107	MD1	TRSMODE	TRS 10-BIT / B-BIT SELECT
108	TX	TX	TEST PIN
109	SEL	VC10 - VC13	525/60 V BLANK CONTROL
110	PARAENC	VDO -- VD9	VIDEO DATA
111	INCH		
112	ANCO	OUTPUT	
113	SYNC2	ANEH, ANEV	PULSE
114	AN1	CMO - CM9	H. F. COUNTER
115	AN2	MFD	MULTIPLEXER F COUNTER PULSE
116	AN3	MUDO - MUD9	VIDEO DATA
117	AN4	OCC13	13.5 MHz CLOCK
118	AN5	OCC27	27 MHz CLOCK
119	AN6	OCS	5.67 MHz CLOCK
120	AN6C		PERROR1, PERROR2
121	AN7		PARTITY ERROR DETECT
122	AN8	OC27	PARTITY
123	AN9	POUT	PARTITY
124	AN10	SAVPNT	SAV PULSE
125	AN11	OC6	TIMING PULSE
126	AN12	SYNC, SYNC2	F MONITOR
127	TRSMODE	TFO	V MONITOR
128	COMP	SAVPNT	V MONITOR
129	IN ON/OFF		
130	IN B0/B2	TFQ	
131	VIEFENA	TVO	
132	TCINFO		
133	CFINFO		
134	CF1	CM0	
135	CF2	CM1	
136	CK27	CM2	
137	EXTF	CM3	
138	EXTH	CM4	
139	DIV/2	CM5	
140	HDELAY1	CM6	
141	VC10	CM7	
142	VC11	CM8	
143	VC12	CM9	
144	VC13	MFP	
145	TCL		
146	THCNT		
147	TFCNT		
148	TFCK		
149	TCTO		



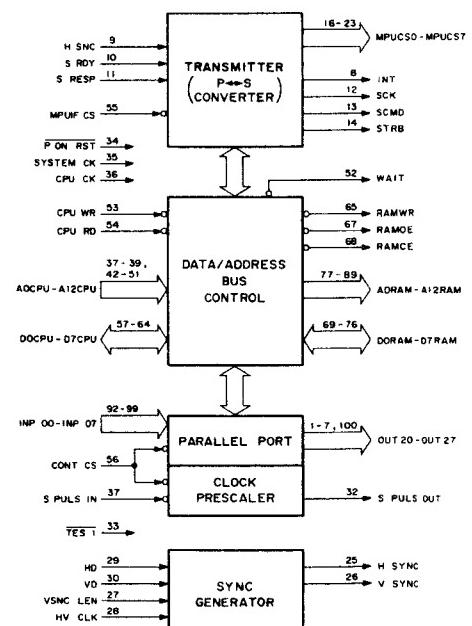
CXD8804Q (SONY)

**C-MOS 8-MPU COMMUNICATION CONTROLLER WITH PARALLEL PORT  
- TOP VIEW -**



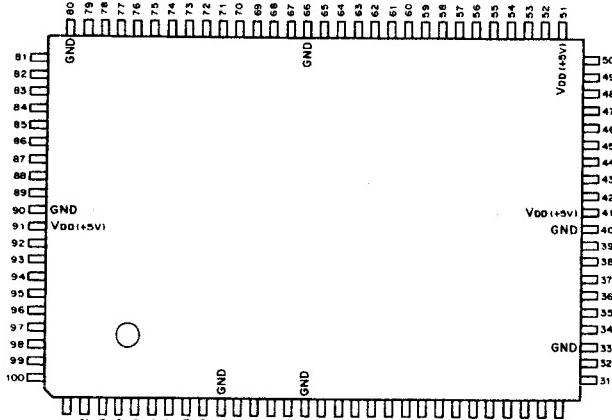
		IN	OUT
53	MPUIF CS	WA1	02
54	CPU RD	RAM WR	55
55	CPU WR	RAM OE	57
56		RAM CE	58
57		AORAM	89
58	A1CPU	A1RAM	88
59	A2CPU	A2RAM	87
60			INP 00 - 07
61	A3CPU	A3RAM	86
62			P ON RST
63	A4CPU	A4RAM	85
64	A5CPU	A5RAM	84
65	A6CPU	A6RAM	83
66	A7CPU	A7RAM	82
67	A8CPU	A8RAM	81
68	A9CPU	A9RAM	80
69	A10CPU	A10RAM	79
70	A11CPU	A11RAM	78
71	A12CPU	A12RAM	77
72			INT
73	D0CPU	D0RAM	76
74	D1CPU	D1RAM	75
75	D2CPU	D2RAM	74
76	D3CPU	D3RAM	73
77	D4CPU	D4RAM	72
78	D5CPU	D5RAM	71
79	D6CPU	D6RAM	70
80	D7CPU	D7RAM	69
81			WAIT
82		MPUCS0	23
83	P ON RST	MPUCS1	22
84		MPUCS2	21
85		MPUCS3	20
86	SYSTEM CK	MPUCS4	19
87	CPU CK	MPUCS5	18
88		MPUCS6	17
89		MPUCS7	16
90	H SYNC	INT	8
91	S RDY	SCM	12
92	S HESP	SCMD	13
93	CONT CS	STRB	14
94			
95	S PULS IN	S PULS OUT	32
96			
97	INP 00	OUT 20	7
98	INP 01	OUT 21	6
99	INP 02	OUT 22	5
100	INP 03	OUT 23	4
101	INP 04	OUT 24	3
102	INP 05	OUT 25	2
103	INP 06	OUT 26	1
104	INP 07	OUT 27	00
105			
106	VD	H SYNC	29
107	HO	V SYNC	28
108	HW CLK		
109	VSYNC LEN		
110	TES1		

(Vcc = +5 V)											
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	O	OUT26	26	O	V SYNC	51	I	A0 CPU	76	I/O	D0 RAM
2	O	OUT25	27	I	VSNC LEN	52	O	WAIT	77	O	A12 RAM
3	O	OUT24	28	I	HVC CLK	53	I	CPU WR	78	O	A11 RAM
4	O	OUT23	29	I	HD	54	I	CPU RD	79	O	A10 RAM
5	O	OUT22	30	I	VD	55	I	MPUF CS	80	O	A9 RAM
6	O	OUT21	31	I	S PULS IN	56	I	CONT CS	81	O	A8 RAM
7	O	OUT20	32	O	S PULS OUT	57	I/O	D7 CPU	82	O	A7 RAM
8	O	INT	33	I	TES 1	58	I/O	D6 CPU	83	O	A6 RAM
9	I	H SNC	34	I	PON RST	59	I/O	D5 CPU	84	O	A5 RAM
10	I	S ROY	35	I	SYSTEM CK	60	I/O	D4 CPU	85	O	A4 RAM
11	I	S RESP	36	I	CPU CK	61	I/O	D3 CPU	86	O	A3 RAM
12	O	SCK	37	I	A12 CPU	62	I/O	D2 CPU	87	O	A2 RAM
13	O	SCMD	38	I	A11 CPU	63	I/O	D1 CPU	88	O	A1 RAM
14	O	STRB	39	I	A10 CPU	64	I/O	DO CPU	89	O	A0 RAM
15	-	GND	40	-	GND	65	O	RAM WR	90	-	GND
16	O	MPUCS7	41	-	Vcc	66	-	GND	91	-	Vcc
17	O	MPUCS6	42	-	A9 CPU	67	O	RAM OE	92	I	INP 07
18	O	MPUCS5	43	-	A8 CPU	68	O	RAM CE	93	I	INP 06
19	O	MPUCS4	44	I	A7 CPU	69	I/O	D7 RAM	94	I	INP 05
20	O	MPUCS3	45	I	A6 CPU	70	I/O	D6 RAM	95	I	INP 04
21	O	MPUCS2	46	I	A5 CPU	71	I/O	D5 RAM	96	I	INP 03
22	O	MPUCS1	47	I	A4 CPU	72	I/O	D4 RAM	97	I	INP 02
23	O	MPUCS0	48	I	A3 CPU	73	I/O	D3 RAM	98	I	INP 01
24	-	N.C.	49	I	A2 CPU	74	I/O	D2 RAM	99	I	INP 00
25	O	H SYNC	50	I	A1 CPU	75	I/O	D1 RAM	100	I	OUT 27



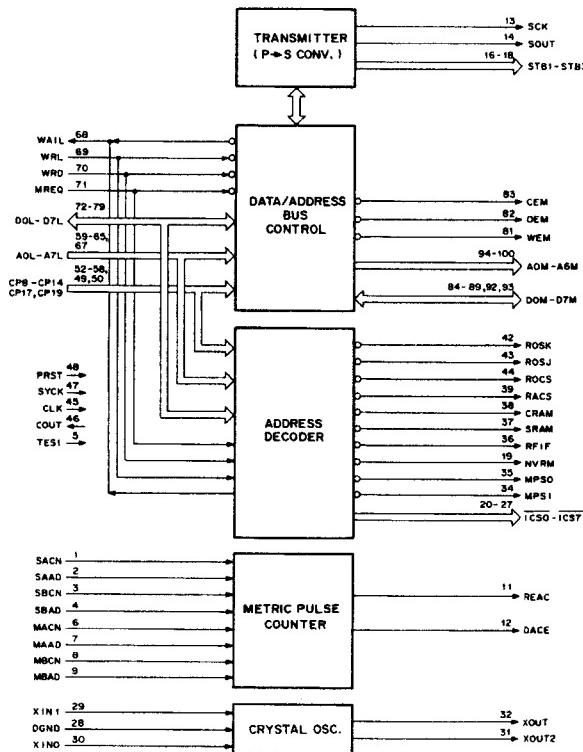
CXD8805Q (SONY)

**C-MOS RF BLOCK DIGITAL CONTROL INTERFACE  
- TOP VIEW -**



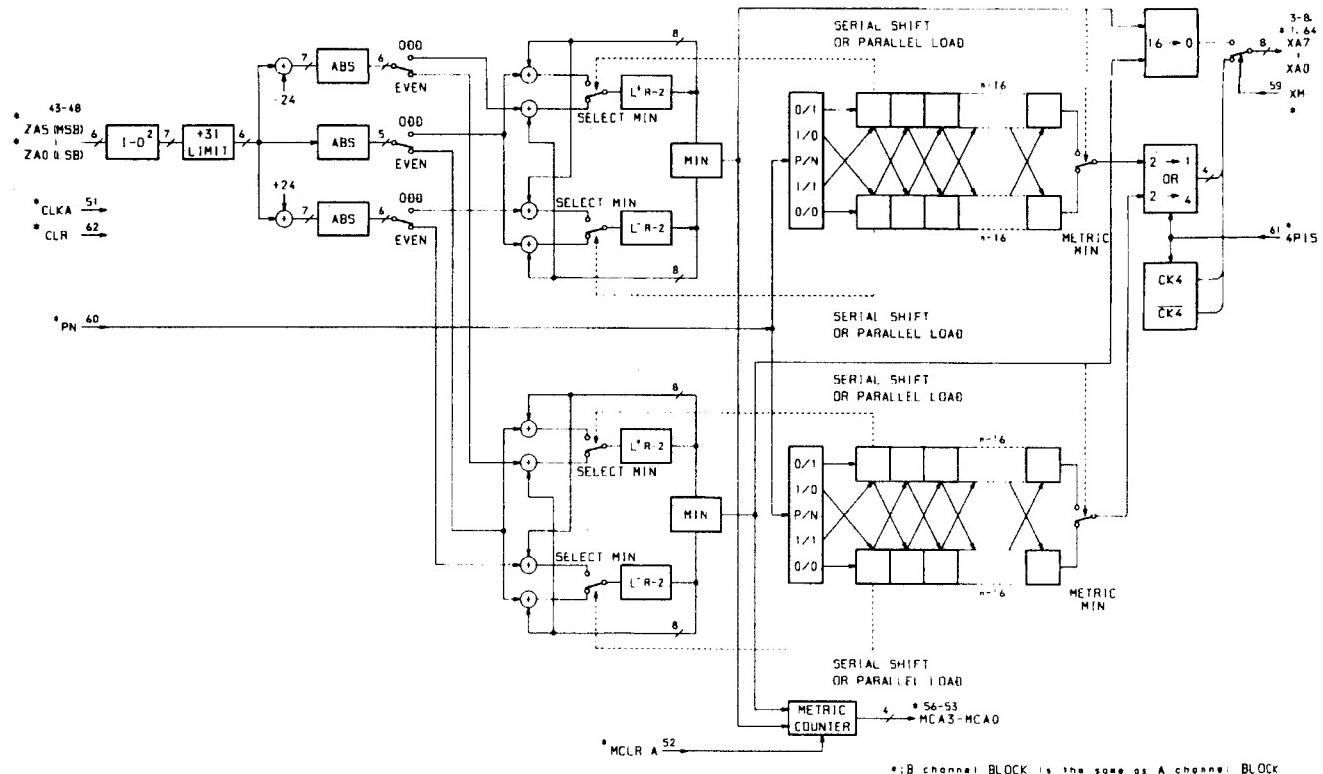
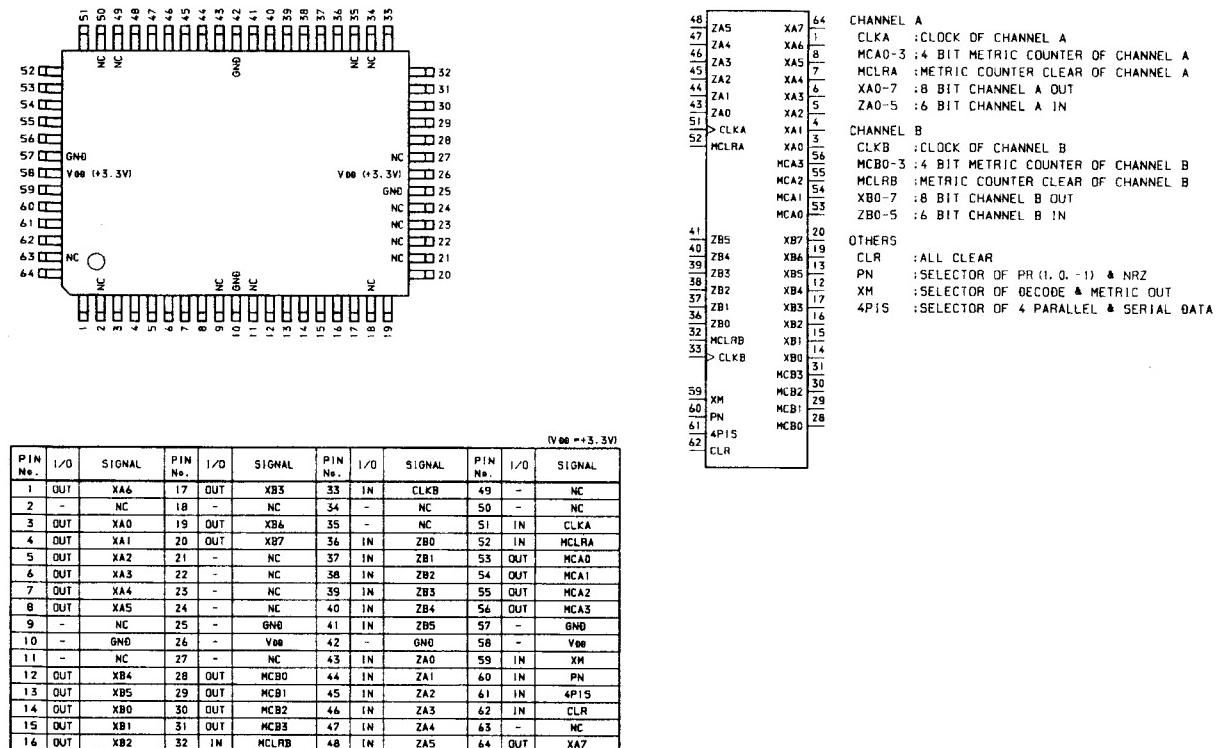
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	SACN	26	O	IC51	51	-	V <sub>CC</sub>	76	/O	D3L
2	I	SAAD	27	O	IC50	52	I	CP14	77	/O	D2L
3	I	SBCN	28	O	D GND	53	I	CP13	78	/O	D1L
4	I	SBAD	29	O	XIN1	54	I	CP12	79	/O	DUL
5	I	TEST	30	I	XIN0	55	I	CP11	80	-	GND
6	I	MACN	31	O	XOU2	56	I	CP10	81	O	WEM
7	I	MAAD	32	O	XOUT	57	I	CP9	82	O	DEM
8	I	MBCN	33	-	GND	58	I	CP8	83	O	CEM
9	I	MBAD	34	O	MPS1	59	I	A7L	84	/O	D7M
10	-	GND	35	O	MPS0	60	I	A6L	85	/O	D6M
11	O	REAC	36	O	RFIF	61	I	A5L	86	/O	DSM
12	O	DACE	37	O	SRAM	62	I	A4L	87	/O	D4M
13	O	SK	38	O	CRAM	63	I	A3L	88	/O	D3M
14	O	SOUT	39	O	RACS	64	I	A2L	89	/O	D2M
15	-	GND	40	-	GND	65	I	A1L	90	-	GND
16	O	STB3	41	-	V <sub>DD</sub>	66	-	GND	91	-	V <sub>DD</sub>
17	O	STB2	42	O	ROSK	67	I	A0L	92	/O	D1M
18	O	STB1	43	O	ROSJ	68	O	WAIL	93	/O	D0M
19	O	NVRM	44	O	ROCS	69	I	WRL	94	O	A5M
20	O	IC57	45	I	CLK	70	I	WRD	95	O	A5M
21	O	IC56	46	O	C OUT	71	I	MREQ	96	O	A4M
22	O	IC55	47	I	SYCK	72	I/O	D7L	97	O	A3M
23	O	IC54	48	I	PRST	73	I/O	D6L	98	O	A2M
24	O	IC53	49	I	CP19	74	I/O	D5L	99	O	A1M
25	O	IC52	50	I	CP17	75	I/O	D4L	100	O	A0M

68	WAIL	SC1	13	INPUT	
69	WRL	SOUT	14	AOL - A7L	CPU ADDRESS BUS (LOW ORDER)
70	WRD	STB1	15	CLK	CPU CLOCK
71	MREQ	STB2	17	CP8 - CP14, CP17,	CP19
72	DOL	STB3	16	D GND	CPU ADDRESS BUS (UPPER ORDER)
73	D1L			MAAD	CRYSTAL OSCILLATOR CIRCUIT GND
74	D2L	WEN	11	MACH	METRIC PULSE INPUT ADV - AC
75	D3L	OEM	12	MBAD	METRIC PULSE INPUT CONF1 - AC
76	D4L	CEM	13	MBCN	METRIC PULSE INPUT ADV - BD
77	D5L	ADM	100	MREQ	METRIC PULSE INPUT CONF1 - BD
78	D6L	ADM	99	PRST	CPU MEMORY REQUEST
79	D7L	ADM	98	POWER ON RESET	
80	AOL	SAAD	97	HEAD SELECT INPUT ADV - AC	
81	A1L	SACN	96	HEAD SELECT INPUT CONF1 - AC	
82	A2L	SBAD	95	HEAD SELECT INPUT ADV - BD	
83	A3L	SBCN	94	HEAD SELECT INPUT CONF1 - BD	
84	A4L	SYCK	93	SYSTEM CLOCK	
85	A5L	WRD	92	CPU READ STROBE	
86	A6L	WRL	91	CPU WRITE STROBE	
87	A7L	XINO	90	CRYSTAL INPUT 0	
88	A8L	XIN1	89	CRYSTAL INPUT 1	
89	A9L				
90	DOM				
91	A4L				
92	ADM				
93	D2M	ADM - AGM		EXTERNAL RAM ADDRESS BUS	
94	D3M	ADM		EXTERNAL RAM CHIP SELECT	
95	D4M	COUT		CLOCK INPUT FREQUENCY	
96	D5M	CRAM		ADDRESS DECODER	
97	D6M	DACE		METRIC DATA COUNT END	
98	D7M	IC50 - IC57		ADDRESS DECODER	
99	CP8	MPS0, MPS1		ADDRESS DECODER	
100	CP9	NVRM		ADDRESS DECODER	
101	CP10	DEM		EXTERNAL OUTPUT ENABLE	
102	CP11	RACS		ADDRESS DECODER	
103	CP12	REAC		METRIC DATA A/C DETECTOR	
104	CP13	RFIF		ADDRESS DECODER	
105	CP14	ROCS		ADDRESS DECODER	
106	CP15	SRAM		ADDRESS DECODER	
107	CP16	ROSJ		ADDRESS DECODER	
108	CP17	CRAM		ADDRESS DECODER	
109	CP18	ROSK		ADDRESS DECODER	
110	CP19	RACS		SERIAL TRANSMISSION CLOCK	
111	ROSK	SOUT		SERIAL TRANSMISSION DATA	
112	ROU1	STB1 - STB3		SERIAL TRANSMISSION STROBE1 - 3	
113	ROU2	SRAM		ADDRESS DECODER	
114	ROU3	WAIL		CPU WAIT	
115	MP50	WEM		EXTERNAL RAM WRITE STROBE	
116	MP51	XOUT		CRYSTAL OSCILLATOR OUTPUT	
117	IC50	XOU2		CRYSTAL OSCILLATOR OUTPUT 2	
118	TE31				
119		IC51			
120		IC52			
121		DOL - D7L		INPUT/OUTPUT	
122		DOM - D7M		CPU DATA BUS	
123		IC53			
124		IC54			
125		IC55			
126		IC56			
127		IC57			
128					
129	SACN	REAC	11		
130	SAAD	DACE	12		
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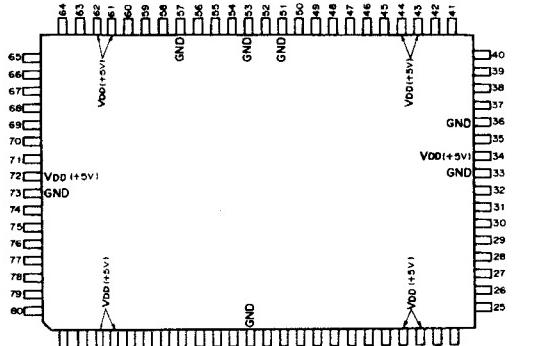
CXD8815Q (SONY)

C-MOS VITERBI DECODER  
- TOP VIEW -

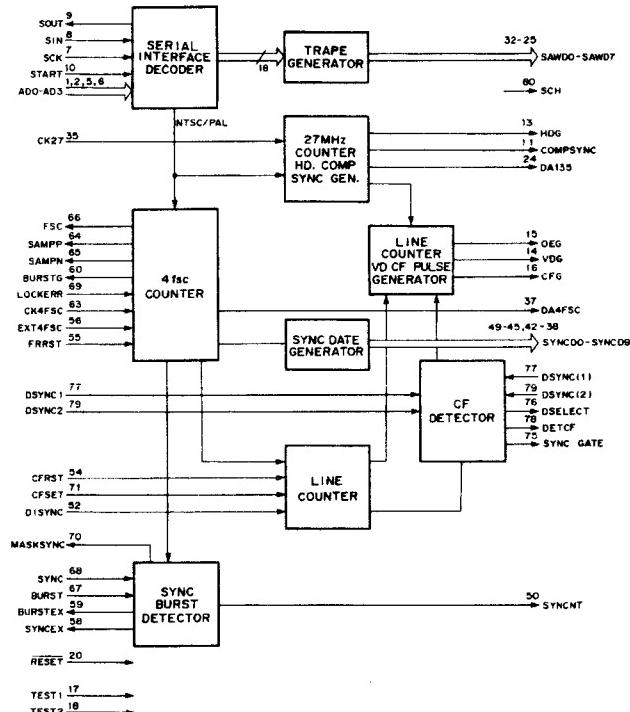


## CXD8817Q (SONY)

C-MOS VIDEO TIMING SIGNAL GENERATOR  
- TOP VIEW -



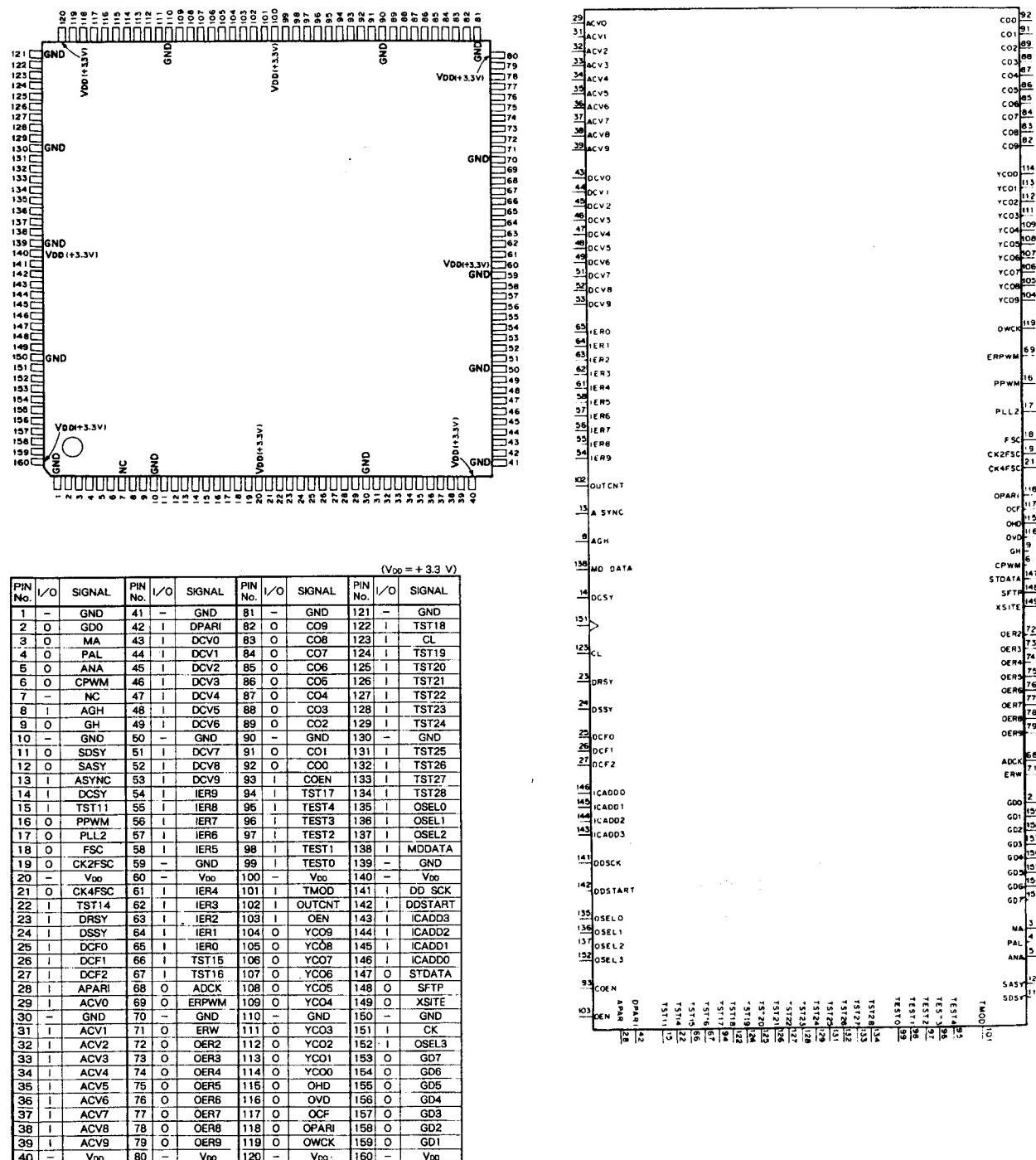
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	ADO	21	-	Vdd	41	O	SYNC06	61	-	Vdd
2	I	AD1	22	-	Vdd	42	O	SYNC05	62	-	Vdd
3	-	Vdd	23	-	NC	43	-	Vdd	63	I	CK4FSC
4	-	Vdd	24	O	DA135	44	-	Vdd	64	O	SAMPP
5	I	AD2	25	O	SAWD7	45	O	SYNC04	65	O	SAMPN
6	I	AD3	26	O	SAWD6	46	O	SYNC03	66	O	FSC
7	I	SCK	27	O	SAWD5	47	O	SYNC02	67	I	BURST
8	I	SIN	28	O	SAWD4	48	O	SYNC01	68	I	SYNC
9	O	SOUT	29	O	SAWD3	49	O	SYNC00	69	I	LOCKERR
10	I	START	30	O	SAWD2	50	O	SYNCNT	70	O	MASKSYNC
11	I	COMPSYNC	31	O	SAWD1	51	-	GND	71	I	CFSET
12	-	GND	32	O	SAWD0	52	I	D1SYNC	72	-	Vdd
13	O	HDG	33	-	GND	53	-	GND	73	-	GND
14	O	VDG	34	-	Vdd	54	I	CFRST	74	I	TEST
15	O	OEG	35	I	CK27	55	I	FRRST	75	O	SYNCGATE
16	O	CFG	36	-	GND	56	I	EXT4FSC	76	O	DSELECT
17	I	TEST1	37	O	DA4FSC	57	-	GND	77	I	DSYNC1
18	I	TEST2	38	O	SYNC09	58	O	SYNCEX	78	O	DETCF
19	O	TESTOUT	39	O	SYNC08	59	O	BURSTEX	79	I	DSYNC2
20	I	RESET	40	O	SYNC07	60	O	BURSTG	80	O	SCH



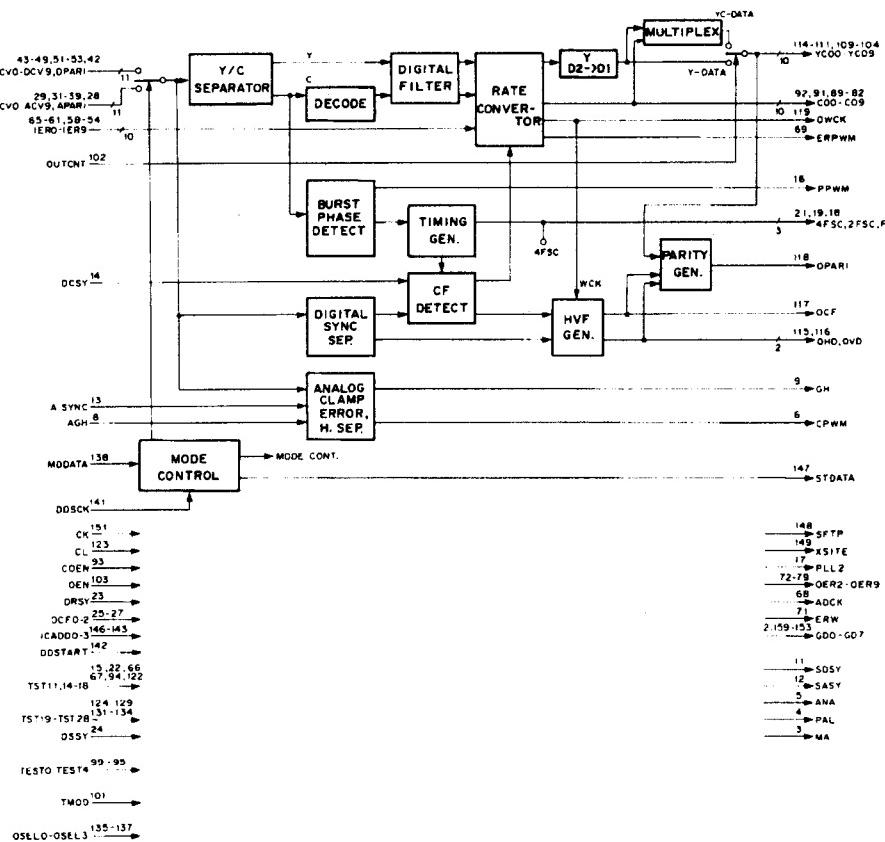
8	BURST	SOUT	9	ADO - AD3	SERIAL PRESET ADDRESS
7	SIN	SOUT	10	BURST	REFERENCE BURST INPUT
10	SCK	1	1	CFRST	CF RESET FOR D2 LOCK
11	START	56	55	CFSET	EXTERNAL CF PULSE INPUT
1	ADO	54	54	CK27	27MHz CLOCK
2	AD1	53	53	CK4FSC	4FSC CLOCK
3	AD2	52	52	D1SYNC	DS SYNC FOR D1 LOCK
4	AD3	51	51	DSYNC1	DELAYED SYNC FOR DET
5	BURSTG	50	50	DSYNC2	DELAYED SYNC FOR EACH DET
6	SYNCEX	49	49	EXT4FSC	EXTERNAL 4FSC CLOCK
7	SAWD7	48	48	FRRST	FRAME RESET FOR D2 LOCK
8	SAW01	47	47	LOCKERR	4FSC PLL LOCK ERROR
9	CK4FSC	46	46	RESET	POWER ON RESET
10	EXT4FSC	45	45	SCK	SERIAL CLOCK
11	FRRST	44	44	SIN	SERIAL DATA INPUT
12	LOCKERR	43	43	START	SERIAL START PULSE
13	SAW02	42	42	SYNC	REFERENCE SYNC INPUT
14	SAW03	41	41	TEST	TEST PIN
15	SAW04	40	40	TEST1, 2	TEST PINS
16	SAW05	39	39	SIN	BURST EXIST : H
17	SAW06	38	38	BURSTG	BURST SAMPLE PULSE FOR NTSC
18	SAW07	37	37	CFG	COLOR FRAMING PULSE
19	BURST	36	36	COMPSYNC	COMPOSITE SYNC
20	CK27	35	35	DA135	13.5 MHz CLOCK
21	DSYNC1	34	34	DA4FSC	4FSC CLOCK
22	DSYNC2	33	33	DETFC	DETECTED COLOR FRAMING
23	CFSET	32	32	DSELECT	HYSTERESIS CONTROL FOR CF DET
24	D1 SYNC	31	31	FSC	FSC CLOCK
25	RESET	30	30	HDG	HD PULSE
26	SYNC	29	29	MASKSYNC	MASKED SYNC
27	TEST	28	28	OEG	ODD/EVEN PULSE
28	TEST1	27	27	SAMPN	BURST SAMPLE (-) FOR PAL
29	TEST2	26	26	SAMPP	BURST SAMPLE (+) FOR PAL
30	TEST OUT	25	25	SAWD0	-
31	DSYNC0	24	24	SYNC07	- SAWD7
32	DSYNC1	23	23	SCH	27 MHz SAW-TOOTH DATA (0 - 7)
33	DSYNC2	22	22	SOUT	DETECTED SCH
34	CFRST	21	21	SYNC08	SERIAL DATA OUTPUT
35	CFSET	20	20	SYNC09	- SYNC09 : 4FSC SYNC DATA (0 - 9)
36	D1 SYNC	19	19	SYNCEX	SYNC EXIST : H
37	RESET	18	18	SYNC08	SELECTED SYNC FOR CF DET
38	DSYNC0	17	17	SYNC08	4FSC SYNC FOR NTSC
39	DSYNC1	16	16	TEST1	TEST PIN
40	DSYNC2	15	15	TEST2	TEST PIN
41	CFRST	14	14	TEST1	TEST OUT
42	CFSET	13	13	TEST2	-
43	D1 SYNC	12	12	TEST1	-
44	RESET	11	11	TEST2	-
45	DSYNC0	10	10	TEST1	-
46	DSYNC1	9	9	TEST2	-
47	DSYNC2	8	8	TEST1	-
48	CFRST	7	7	TEST2	-
49	CFSET	6	6	TEST1	-
50	D1 SYNC	5	5	TEST2	-
51	RESET	4	4	TEST1	-
52	DSYNC0	3	3	TEST2	-
53	DSYNC1	2	2	TEST1	-
54	DSYNC2	1	1	TEST2	-

CXD8819AQ (FUJITSU)

**C-MOS DIGITAL VIDEO SIGNAL DECODER**  
**- TOP VIEW -**

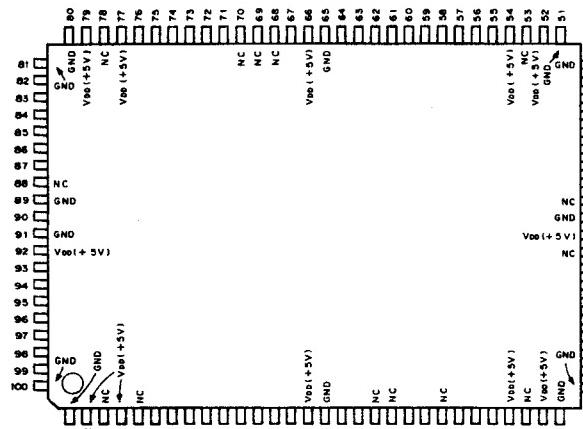


INPUT	
ACV0 ~ ACV9	ANALOG INPUT DATA (0 ~ 9)
AGH	ANALOG GATED H
APARI	PARTY OF ANALOG INPUT DATA
ASYNC	ANALOG COMPOSITE SYNC
CK	INPUT 8fsc CK
CL	POWER ON RESET
COEN	CHROMA OUTPUT ENABLE
DCF0 ~ DCF2	D2 INPUT CF (0 ~ 2)
DCSY	DELAYED COMPOSITE SYNC
DCV0 ~ DCV9	DIGITAL INPUT DATA (0 ~ 9)
DDSK	CK FOR SERIAL MODE DATA
DDSTART	START PULSE FOR SERIAL COMMUNICATION
DPARI	PARTY OF DIGITAL INPUT DATA
DRSY	DIGITAL DELAYED SYNC (8fsc X 8N)
DSY	DIGITAL DELAYED SYNC (8fsc X 8N)
IADD0 ~ ICADD0	CF ADDRESS (0 ~ 3)
IERO ~ IER9	NON STANDARD PLL ERROR INPUT (0 ~ 9)
MMDATA	SERIAL MODE DATA FROM CPU
OSN	Y (Y/C) OUTPUT ENABLE
OSEL0 ~ OSEL3	TEST (0 ~ 3)
OUTCNT	OUTPUT CONTROL : Y/YC MULTIPLEX
TEST0 ~ TEST4	TEST (0 ~ 4)
TMOD	TEST MODE
TST11	TEST11
TST14 ~ TST28	TEST (14 ~ 28)
OUTPUT	
ACK	NON STANDARD PLL ERROR SAMPLING CK
ANA	ANALOG/DIGITAL
CK2FSC	INTERNAL 2fsc CK
CK4FSC	INTERNAL 4fsc CK
C00 ~ C09	CHROMA OUT (0 ~ 9)
CPWM	CLAMP ERROR PWM
ERPWM	NON STANDARD PLL ERROR SAMPLING PWM
ERW	NON STANDARD PLL ERROR WIDTH
FSC	INTERNAL 4fsc CK
G00 ~ GD7	GAIN DATA (0 ~ 7)
GH	GATED H
MA	MANUAL/AUTO (AGC MODE)
OCF	CF INFORMATION
OER2 ~ OER9	NON STANDARD PLL ERROR OUTPUT (2 ~ 9)
OH0	HD
OPARI	PARTY OF OUTPUT DATA
OVD	VD
OWCK	PSEUDO 13.5 MHz/27 MHz
PAL	PAL/NTSC
PLL2	DIGITAL PLL FOR 2fsc CK
PPWM	SAMPLING CK PLL ERROR PWM
SASY	ANALOG SYNC
SDSY	DIGITAL SYNC
SFTP	DIRECTION FOR SCH 0*
STDATA	SERIAL OUTPUT DATA TO CPU
XSITE	COMPONENT/COMPOSITE
YC00 ~ YC09	Y (Y/C) OUTPUT (0 ~ 9)

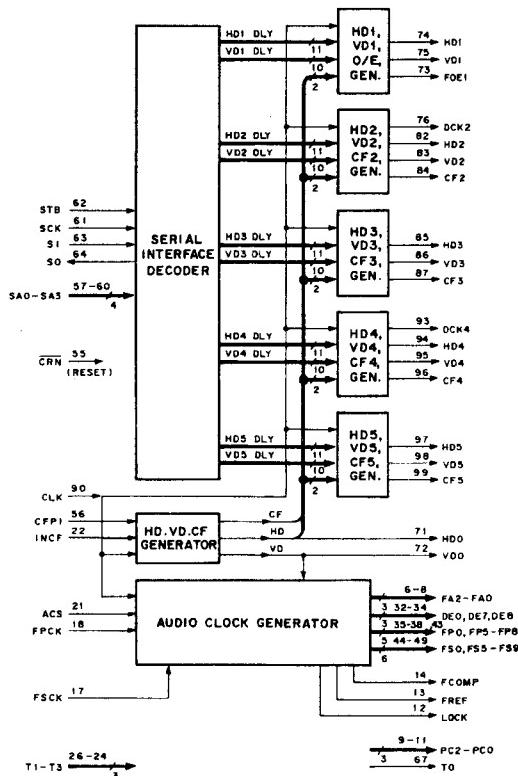
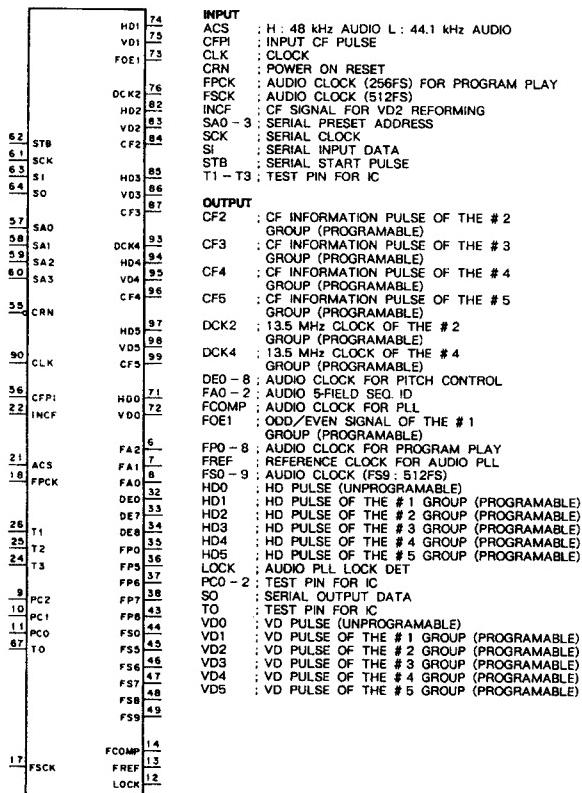


## CXD8821Q (SONY)

C-MOS AUDIO TIMING GENERATOR  
—TOP VIEW—

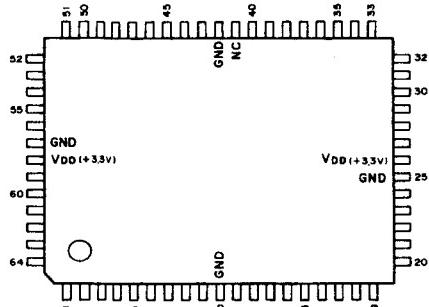


PIN No.	I/O	SIGNAL									
1	-	GND	26	I	T1	51	-	GND	76	O	DCK2
2	-	Vdd	27	-	Vdd	52	-	Vdd	77	-	Vdd
3	-	NC	28	-	NC	53	-	NC	78	-	NC
4	-	Vdd	29	-	Vdd	54	-	Vdd	79	-	Vdd
5	-	NC	30	-	GND	55	I	CRIN	80	-	GND
6	O	FA2	31	-	GND	56	I	CFPI	81	-	GND
7	O	FA1	32	O	DE0	57	I	SA0	82	O	HD2
8	O	FA0	33	O	DET	58	I	SA1	83	O	VD2
9	O	PC2	34	O	DE8	59	I	SA2	84	O	CF2
10	O	PC1	35	O	FPO	60	I	SA3	85	O	HD3
11	O	PC0	36	O	FP5	61	I	SCK	86	O	VD3
12	O	LOCK	37	O	FP6	62	I	STB	87	O	CF3
13	O	FREF	38	O	FP7	63	I	SI	88	-	NC
14	O	FCOMP	39	-	NC	64	O	SO	89	-	GND
15	-	Vdd	40	-	Vdd	65	-	GND	90	I	CLK
16	-	GND	41	-	GND	66	-	Vdd	91	-	GND
17	I	FSCK	42	-	NC	67	O	TO	92	-	Vdd
18	I	FPCK	43	O	FP8	68	-	NC	93	O	DCK4
19	-	NC	44	O	FS0	69	-	NC	94	O	HD4
20	-	NC	45	O	FS5	70	-	NC	95	O	VD4
21	I	ACS	46	O	FS6	71	O	HDO	96	O	CF4
22	I	INC1	47	O	FS7	72	O	VDO	97	O	HD5
23	-	NC	48	O	FS8	73	O	FOE1	98	O	VD5
24	I	T3	49	O	FS9	74	O	HD1	99	O	CF5
25	I	T2	50	-	GND	75	O	VD1	100	-	GND



## CXD8854Q (SONY)

C-MOS AUXILIARY CIRCUIT FOR BIT REDUCTION ENCODER AND ERROR  
CORRECTION CODER  
-TOP VIEW-

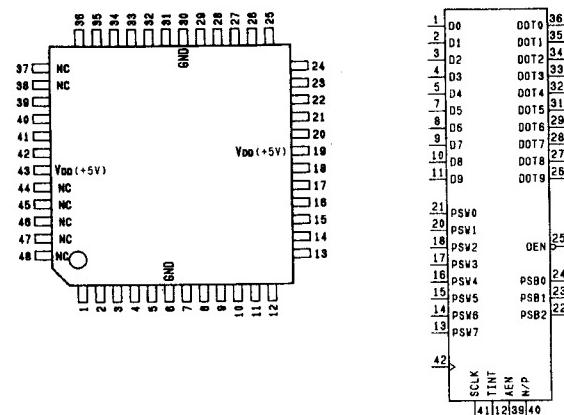


PIN No.	I/O	SIGNAL									
1	I	IPAD0	17	I	IAAO	33	O	OAF0	49	I	IID5
2	I	IPAD1	18	I	IAAO1	34	O	OAF1	50	I	IID6
3	I	IPAD2	19	I	IAFS	35	O	OAF2	51	I	IID7
4	I	IPAD3	20	I	IAVO	36	O	OCSX	52	I	IVAO
5	I	IPAD4	21	I	IAV1	37	O	OWE	53	I	IVA1
6	I	IPAD5	22	I	IA64	38	I	IWSL	54	I	IWR
7	I	IPAD6	23	O	OH625	39	I	IWS0	55	I	IWE
8	I	IPAD7	24	I	IACK	40	I	IWS1	56	I	ICK16
9	I	IRST	25	-	GND	41	-	NC	57	-	GND
10	-	GND	26	-	VDD	42	-	GND	58	-	VDD
11	O	OACK	27	I	ID5F0	43	I	ITR	59	I	IIN
12	O	OAD0	28	I	ID5F1	44	I	IID0	60	O	OINX
13	O	OAD1	29	I	ID5F2	45	I	IID1	61	I	IPCS
14	O	OAFS	30	I	IR5F0	46	I	IID2	62	I	IPS0
15	O	OAV0	31	I	IR5F1	47	I	IID3	63	I	IPS1
16	O	OAV1	32	I	IR5F2	48	I	IID4	64	I	IPSTB

1	IPAD0	12
2	IPAD1	13
3	IPAD2	14
4	IPAD3	15
5	IPAD4	16
6	IPAD5	17
7	IPAD6	18
8	IPAD7	19
17	IAAO	20
18	IAAO1	21
19	IAFS	22
20	IAVO	23
21	IAV1	24
22	IA64	25
24	IACK	26
27	ID5F0	27
28	ID5F1	28
29	ID5F2	29
30	IR5F0	30
31	IR5F1	31
32	IR5F2	32
39	IWS0	33
40	IWS1	34
43	ITR	35
44	IID0	36
45	IID1	37
46	IID2	38
47	IID3	39
48	IID4	40
49	IID5	41
50	IID6	42
51	IID7	43
52	IVAO	44
53	IVA1	45
56	ICK16	46
59	IIN	47
62	IPS0	48
63	IPS1	49
93	IWSL	50
54	IWR	51
55	IWE	52
61	IPCS	53
62	IPSTB	54
63	PS0	55

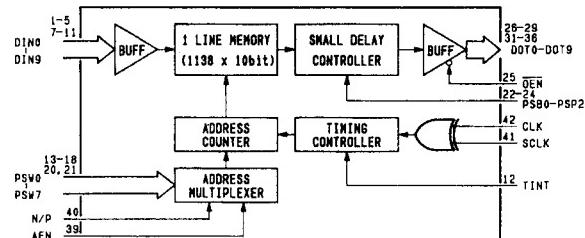
## CXK1203AR (SONY) FLAT PACKAGE

C-MOS DIGITAL LINE MEMORY  
- TOP VIEW -



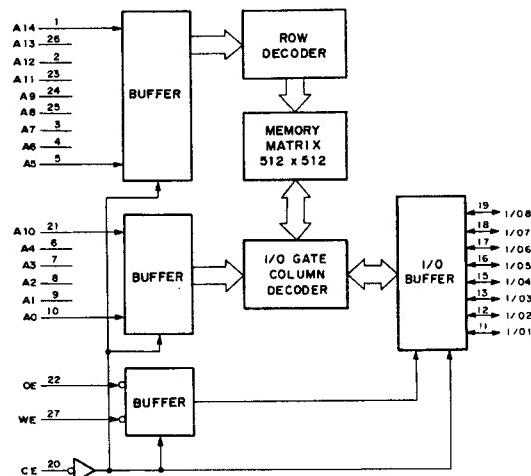
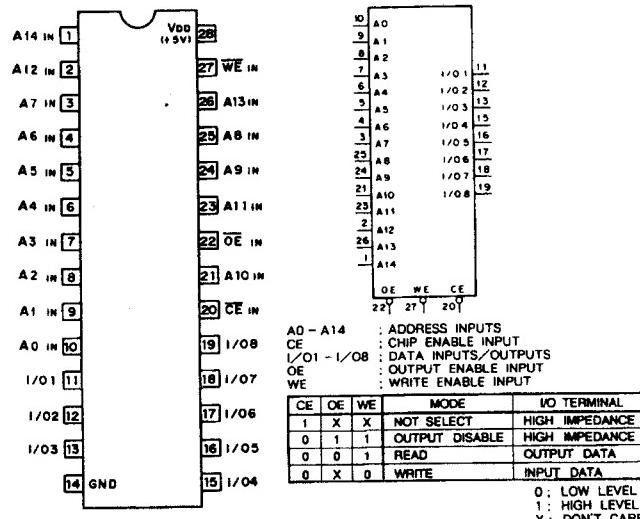
PIN No.	I/O	SIGNAL									
1	I	D0	13	I	PSW7	25	I	OPEN	37	-	N.C.
2	I	D1	14	I	PSW6	26	O	DOT9	38	-	N.C.
3	I	D2	15	I	PSW5	27	O	DOT8	39	I	AEN
4	I	D3	16	I	PSW4	28	O	DOT7	40	I	N/P
5	I	D4	17	I	PSW3	29	O	DOT6	41	I	SCLK
6	-	GND	18	I	PSW2	30	-	GND	42	I	CLK
7	I	D5	19	-	VDD	31	O	DOT5	43	-	VDD
8	I	D6	20	I	PSW1	32	O	DOT4	44	-	N.C.
9	I	D7	21	I	PSW0	33	O	DOT3	45	-	N.C.
10	I	D8	22	I	PSB2	34	O	DOT2	46	-	N.C.
11	I	D9	23	I	PSB1	35	O	DOT1	47	-	N.C.
12	I	TINT	24	I	PSB0	36	O	DOT0	48	-	N.C.

AEN : LINE MEMORY SELECT  
 CLK : CLOCK  
 DIN0-DIN9 : VIDEO DATA INPUT  
 DOT0-DOT9 : VIDEO DATA OUTPUT  
 N/P : NTSC/PAL/SECAM SELECT  
 OPEN : OUTPUT ENABLE  
 PSB0-PSB2 : DELAY STEP SELECT(1 BIT×N)  
 PSW0-PSW7 : DELAY STEP SELECT(8 BIT×N)  
 SCLK : CLOCK EDGE SELECT  
 TINT : TEST

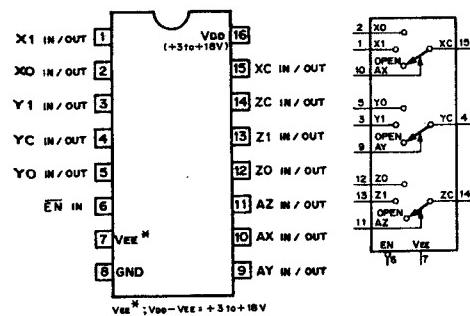


## CXK58257AM-10L (SONY) FLAT PACKAGE

C-MOS 32768-WORD × 8-BIT STATIC RAM  
—TOP VIEW—

HD14053BFP (HITACHI) FLAT PACKAGE  
TC4053BFS (TOSHIBA) FLAT PACKAGE

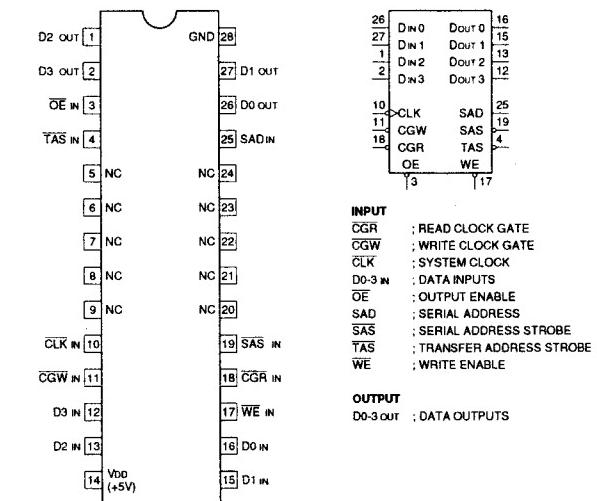
C-MOS TRIPLE 2-CHANNEL ANALOG MULTIPLEXERS/DEMULTIPLEXERS  
—TOP VIEW—



CONT. INPUTS	ON CHANNEL
0; LOW LEVEL	0
1; HIGH LEVEL	1
X; DONT CARE.	OPEN

## HM53051FP-60 (HITACHI)

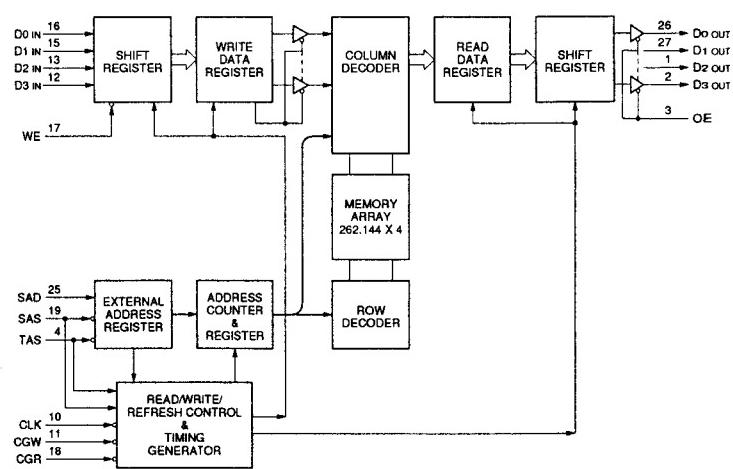
C-MOS 1M (262,144WORD × 4)-BIT FRAME MEMORY  
—TOP VIEW—



The System mode is selected by LSB-bits of SAD. (MF, WF, RF, AWO, ARO)

MF	WF	RF	AWO	ARO	MODE
0	0	0	X	X	READ/WRITE ADDRESS TRANSFER ASYNCHRONOUS
0	0	1	X	X	WRITE ADDRESS TRANSFER ASYNCHRONOUS
0	1	0	X	X	READ ADDRESS TRANSFER ASYNCHRONOUS
0	1	1	X	X	—
1	0	0	X	X	READ/WRITE ADDRESS TRANSFER SYNCHRONOUS
1	0	1	X	X	WRITE ADDRESS TRANSFER SYNCHRONOUS
1	1	0	X	X	READ ADDRESS TRANSFER SYNCHRONOUS
1	1	1	1	1	SYSTEM RESET
1	1	1	0	0	—
1	1	1	0	1	—
1	1	1	1	0	PROHIBITION

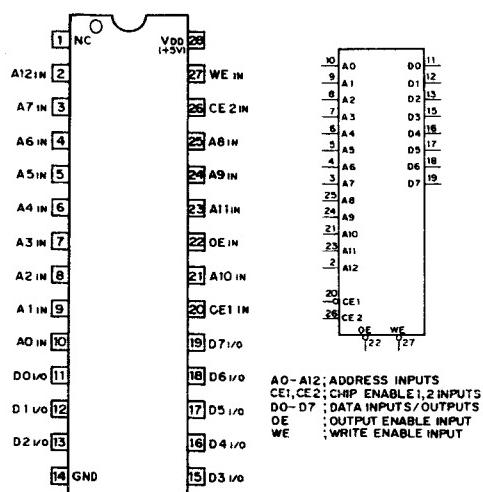
MF : MODE FLAG  
WF : WRITE FLAG  
RF : READ FLAG  
AW(0-12) : WRITE ADDRESS  
AR(0-12) : READ ADDRESS  
0 : LOW LEVEL  
1 : HIGH LEVEL  
X : DONT CARE



## HM6264ALFP-12 (HITACHI) FLAT PACKAGE

C-MOS 64K (8192 × 8)-BIT STATIC RAM

-TOP VIEW-



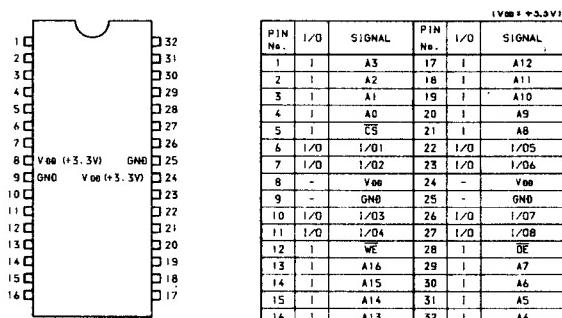
MODE SELECTION			
CONTROL INPUTS			
CE1	CE2	WE	MODE
1	X	X	NO CHANGE
X	0	X	NO CHANGE
0	1	1	DISABLE OUTPUT
0	1	0	READ
0	1	0	WRITE

0 : LOW LEVEL  
1 : HIGH LEVEL  
X : DON'T CARE

HM62W8127HJP-27 (HITACHI) PLCC  
HM62W8127HJP-35 (HITACHI) PLCC

C-MOS 1M (131k × 8)-BIT STATIC RAM

-TOP VIEW-



**INPUT**

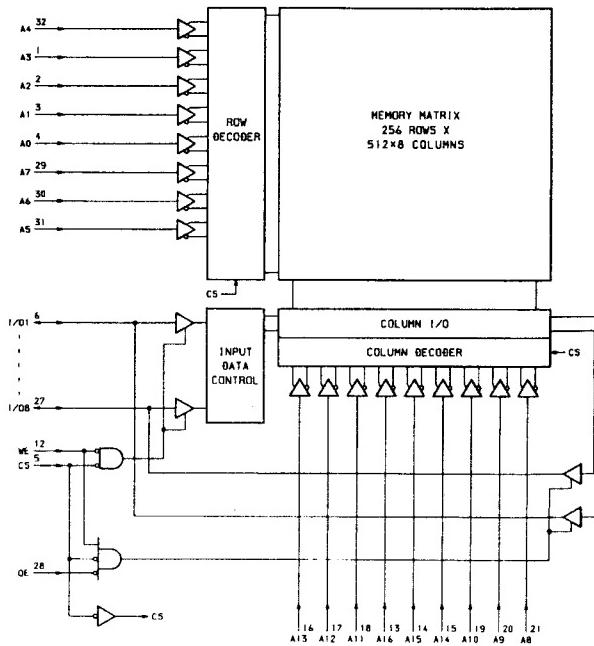
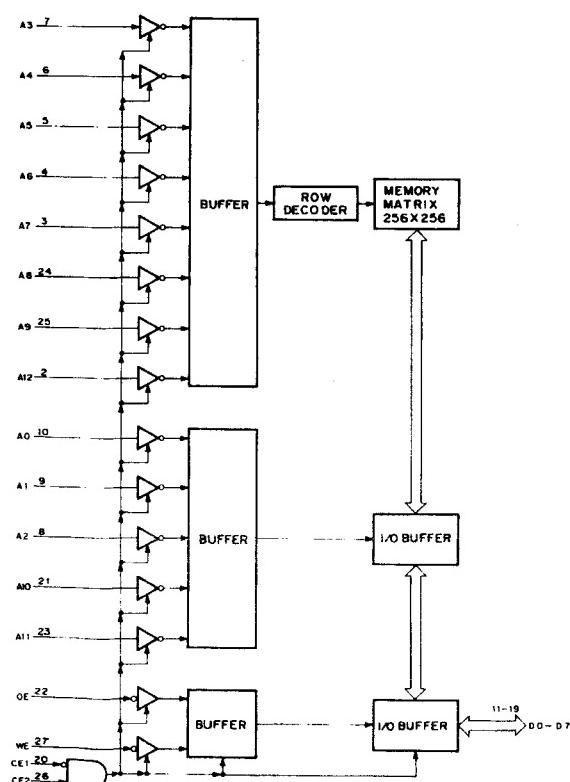
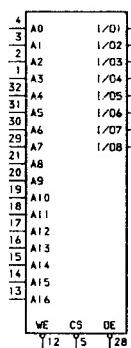
A0-A16 : ADDRESS INPUTS  
CS : CHIP SELECT  
OE : OUTPUT ENABLE INPUT  
WE : WRITE ENABLE INPUT

**INPUT/OUTPUT**

I/O1-I/O8 : DATA INPUTS/OUTPUTS

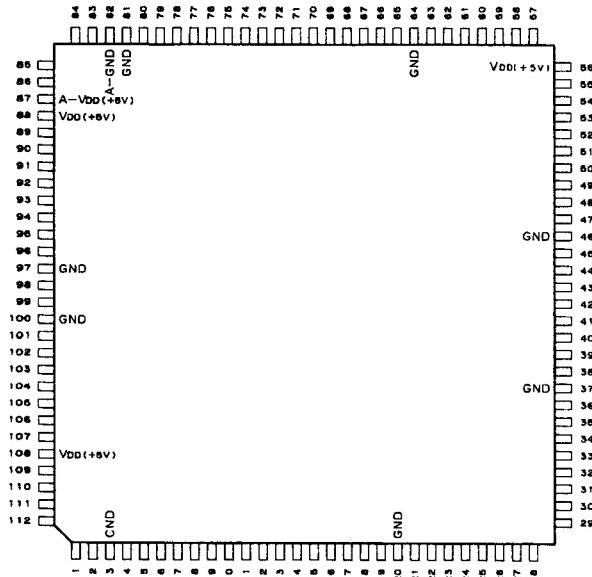
CS	OE	WE	MODE	I/O
1	X	X	NON SELECT	HI-Z
0	1	1	OUTPUT DISABLE	HI-Z
0	0	1	READ	OUTPUT
0	X	0	WRITE	INPUT

0 : LOW LEVEL  
1 : HIGH LEVEL  
X : DON'T CARE  
HI-Z : HIGH IMPEDANCE



## HD6415108RF10 (HITACHI)

C-MOS 16-BIT MICROCOMPUTER UNIT  
- TOP VIEW -

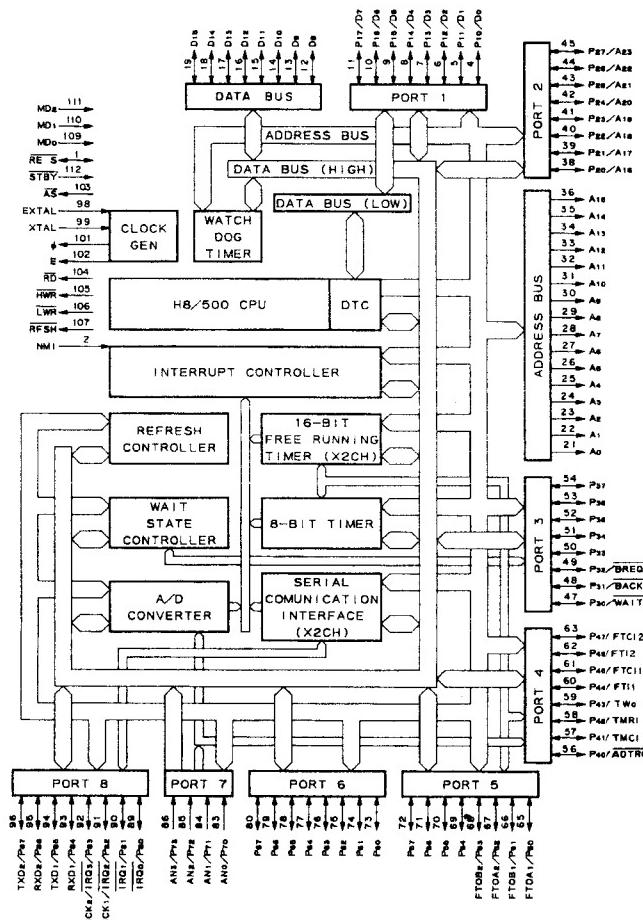


PIN No.	EXPANSION MINIMUM MODE		EXPANSION MAXIMUM MODE					
	MODE 1	MODE 2	MODE 3	MODE 4				
I/O	SIGNAL	I/O	SIGNAL	I/O	SIGNAL			
1	I/O	RES	I/O	RES	I/O	RES		
2	I	NMI	I	NMI	I	NMI		
3	-	GND	-	GND	-	GND		
4	I/O	P10	I/O	D0	I/O	P10	I/O	D0
5	I/O	P11	I/O	D1	I/O	P11	I/O	D1
6	I/O	P12	I/O	D2	I/O	P12	I/O	D2
7	I/O	P13	I/O	D3	I/O	P13	I/O	D3
8	I/O	P14	I/O	D4	I/O	P14	I/O	D4
9	I/O	P15	I/O	D5	I/O	P15	I/O	D5
10	I/O	P16	I/O	D6	I/O	P16	I/O	D6
11	I/O	P17	I/O	D7	I/O	P17	I/O	D7
12	I/O	D8	I/O	D8	I/O	D8	I/O	D8
13	I/O	D9	I/O	D9	I/O	D9	I/O	D9
14	I/O	D10	I/O	D10	I/O	D10	I/O	D10
15	I/O	D11	I/O	D11	I/O	D11	I/O	D11
16	I/O	D12	I/O	D12	I/O	D12	I/O	D12
17	I/O	D13	I/O	D13	I/O	D13	I/O	D13
18	I/O	D14	I/O	D14	I/O	D14	I/O	D14
19	I/O	D15	I/O	D15	I/O	D15	I/O	D15
20	-	GND	-	GND	-	GND	-	GND
21	O	A0	O	A0	O	A0	O	A0
22	O	A1	O	A1	O	A1	O	A1
23	O	A2	O	A2	O	A2	O	A2
24	O	A3	O	A3	O	A3	O	A3
25	O	A4	O	A4	O	A4	O	A4
26	O	A5	O	A5	O	A5	O	A5
27	O	A6	O	A6	O	A6	O	A6
28	O	A7	O	A7	O	A7	O	A7
29	O	A8	O	A8	O	A8	O	A8
30	O	A9	O	A9	O	A9	O	A9
31	O	A10	O	A10	O	A10	O	A10
32	O	A11	O	A11	O	A11	O	A11
33	O	A12	O	A12	O	A12	O	A12
34	O	A13	O	A13	O	A13	O	A13
35	O	A14	O	A14	O	A14	O	A14
36	O	A15	O	A15	O	A15	O	A15
37	-	GND	-	GND	-	GND	-	GND
38	I/O	P20	I/O	P20	O	A16	O	A16
39	I/O	P21	I/O	P21	O	A17	O	A17
40	I/O	P22	I/O	P22	O	A18	O	A18

PIN No.	EXPANSION MINIMUM MODE		EXPANSION MAXIMUM MODE					
	MODE 1	MODE 2	MODE 3	MODE 4				
I/O	SIGNAL	I/O	SIGNAL	I/O	SIGNAL			
41	I/O	P23	I/O	P23	O	A19	O	A19
42	I/O	P24	I/O	P24	O	A20	O	A20
43	I/O	P25	I/O	P25	O	A21	O	A21
44	I/O	P26	I/O	P26	O	A22	O	A22
45	I/O	P27	I/O	P27	O	A23	O	A23
46	-	GND	-	GND	-	GND	-	GND
47	I/O	P30/WAIT	I/O	P30/WAIT	I/O	P30/WAIT	I/O	P30/WAIT
48	I/O	P31/BACK	I/O	P31/BACK	I/O	P31/BACK	I/O	P31/BACK
49	I/O	P32/BREQ	I/O	P32/BREQ	I/O	P32/BREQ	I/O	P32/BREQ
50	I/O	P33	I/O	P33	I/O	P33	I/O	P33
51	I/O	P34	I/O	P34	I/O	P34	I/O	P34
52	I/O	P35	I/O	P35	I/O	P35	I/O	P35
53	I/O	P36	I/O	P36	I/O	P36	I/O	P36
54	I/O	P37	I/O	P37	I/O	P37	I/O	P37
55	-	Vdd	-	Vdd	-	Vdd	-	Vdd
56	I/O	P40/ADTRG	I/O	P40/ADTRG	I/O	P40/ADTRG	I/O	P40/ADTRG
57	I/O	P41/TMC1	I/O	P41/TMC1	I/O	P41/TMC1	I/O	P41/TMC1
58	I/O	P42/TMR1	I/O	P42/TMR1	I/O	P42/TMR1	I/O	P42/TMR1
59	I/O	P43/TMO	I/O	P43/TMO	I/O	P43/TMO	I/O	P43/TMO
60	I/O	P44/FT1	I/O	P44/FT1	I/O	P44/FT1	I/O	P44/FT1
61	I/O	P45/FTC1	I/O	P45/FTC1	I/O	P45/FTC1	I/O	P45/FTC1
62	I/O	P46/FT12	I/O	P46/FT12	I/O	P46/FT12	I/O	P46/FT12
63	I/O	P47/FTC2	I/O	P47/FTC2	I/O	P47/FTC2	I/O	P47/FTC2
64	-	GND	-	GND	-	GND	-	GND
65	I/O	P50/FTOA1	I/O	P50/FTOA1	I/O	P50/FTOA1	I/O	P50/FTOA1
66	I/O	P51/FTOB1	I/O	P51/FTOB1	I/O	P51/FTOB1	I/O	P51/FTOB1
67	I/O	P52/FTOA2	I/O	P52/FTOA2	I/O	P52/FTOA2	I/O	P52/FTOA2
68	I/O	P53/FTOB2	I/O	P53/FTOB2	I/O	P53/FTOB2	I/O	P53/FTOB2
69	I/O	P54	I/O	P54	I/O	P54	I/O	P54
70	I/O	P55	I/O	P55	I/O	P55	I/O	P55
71	I/O	P56	I/O	P56	I/O	P56	I/O	P56
72	I/O	P57	I/O	P57	I/O	P57	I/O	P57
73	I/O	P60	I/O	P60	I/O	P60	I/O	P60
74	I/O	P61	I/O	P61	I/O	P61	I/O	P61
75	I/O	P62	I/O	P62	I/O	P62	I/O	P62
76	I/O	P63	I/O	P63	I/O	P63	I/O	P63
77	I/O	P64	I/O	P64	I/O	P64	I/O	P64
78	I/O	P65	I/O	P65	I/O	P65	I/O	P65
79	I/O	P66	I/O	P66	I/O	P66	I/O	P66
80	I/O	P67	I/O	P67	I/O	P67	I/O	P67

PIN No.	EXPANSION MINIMUM MODE		EXPANSION MAXIMUM MODE			
	MODE 1	MODE 2	MODE 3	MODE 4		
I/O	SIGNAL	I/O	SIGNAL	I/O	SIGNAL	
81	-	GND	-	GND	-	GND
82	-	A-GND	-	A-GND	-	A-GND
83	I	P70/AN0	I	P70/AN0	I	P70/AN0
84	I	P71/AN1	I	P71/AN1	I	P71/AN1
85	I	P72/AN2	I	P72/AN2	I	P72/AN2
86	I	P73/AN3	I	P73/AN3	I	P73/AN3
87	-	A-Vdd	-	A-Vdd	-	A-Vdd
88	-	Vdd	-	Vdd	-	Vdd
89	I/O	P80/IRQ0	I/O	P80/IRQ0	I/O	P80/IRQ0
90	I/O	P81/IRQ1	I/O	P81/IRQ1	I/O	P81/IRQ1
91	I/O	P82/IRQ2/SC1	I/O	P82/IRQ2/SC1	I/O	P82/IRQ2/SC1
92	I/O	P83/IRQ3/SC2	I/O	P83/IRQ3/SC2	I/O	P83/IRQ3/SC2
93	I/O	P84/RDX1	I/O	P84/RDX1	I/O	P84/RDX1
94	I/O	P85/TX01	I/O	P85/TX01	I/O	P85/TX01
95	I/O	P86/RDX2	I/O	P86/RDX2	I/O	P86/RDX2
96	I/O	P87/TX02	I/O	P87/TX02	I/O	P87/TX02
97	-	GND	-	GND	-	GND
98	I	EXTAL	I	EXTAL	I	EXTAL
99	I	XTAL	I	XTAL	I	XTAL
100	-	GND	-	GND	-	GND
101	O	♦	O	♦	O	♦
102	O	E	O	E	O	E
103	O	AS	O	AS	O	AS
104	O	RD	O	RD	O	RD
105	O	HWR	O	HWR	O	HWR
106	O	LWR	O	LWR	O	LWR
107	O	RFSH	O	RFSH	O	RFSH
108	-	Vdd	-	Vdd	-	Vdd
109	I	MDO	I	MDO	I	MDO
110	I	MD1	I	MD1	I	MD1
111	I	MD2	I	MD2	I	MD2
112	I	STBY	I	STBY	I	STBY

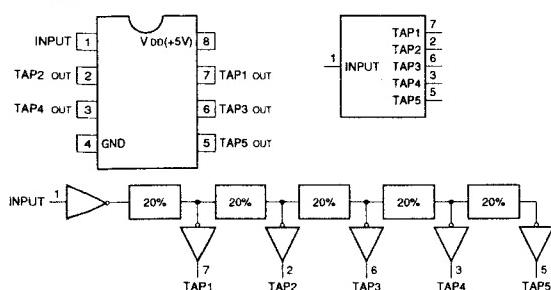
			INPUT	
				EXTERNAL TRIGGER
12	De	WA1/T/Pso	ADTRG	ANALOG
13	De	BACK/Ps1	AN0 - AN3	BUS RIGHT REQUEST
14	D10	BREG/Ps2	BREO	CRYSTAL OSCILLATOR
15	D11	Pas	EXTAL	FREE RUNNING TIMER INPUT CAPTURE (CH1, CH2)
16	D12	Ps4	FT11, FT12	FREE RUNNING TIMER COUNTER CLOCK (CH1, CH2)
17	D13	Ps8	FTC11, FTC12	INTERRUPT REQUEST
18	D14	Ps8	FTD0 - MD2	MODE SET UP
19	D15	Ps7	NMI	NON-MASKABLE INTERRUPT
4	P10/D6	ADTRG/Ps40	P70 - P73	PORT 7
5	P11/D1	TMC1/Ps1	RXD1, RXD2	RECEIVE DATA (CH1, CH2)
6	P12/D6	TMR1/Ps2	STBY	STANDBY
7	P13/D3	TMO/Ps3	TMCI	8-BIT TIMER CLOCK
8	P14/D4	FT11/Ps44	TMRI	8-BIT TIMER COUNTER RESET
9	P15/D6	FTC11/Ps48	W0	WAIT
10	P16/D6	FT12/Ps46	XTAL	WAIT
11	P17/D7	FTC12/Ps47		CRYSTAL OSCILLATOR
			OUTPUT	
38	Pao/A16	FTOA1/Pes	A0 - A23	ADDRESS BUS
39	Psi/A17	FTOB1/Pes1	AS	ADDRESS STROBE
40	Pao/A16	FTOA2/Pes	BACK	BUS RIGHT REQUEST ACKNOWLEDGE
41	Pao/A16	FTOB2/Pes3	E	ENABLE CLOCK
42	Pao/A20	FTOB2/Pes3	FTOA1, FTOA2	FREE RUNNING TIMER OUTPUT COMPARE A (CH1, CH2)
43	Pao/A21	Pes4	FTOB1, FTOB2	FREE RUNNING TIMER OUTPUT COMPARE B (CH1, CH2)
44	Pao/A22	Pes1	HWR	HIGH WRITE
45	Pao/A23	Pes1	LWR	LOW WRITE
46	Pao/A23	Pes1	RD	READ
47	Pao/A23	Pes1	RFSH	REFRESH CYCLE
48	Pao/A23	Pes1	TMO	8-BIT TIMER
21	Ao	Pes4	TXD1, TXD2	TRANSMISSION DATA (CH1, CH2)
22	Ao	Pes1	φ	SYSTEM CLOCK
			INPUT/OUTPUT	
23	Ae	Pes4	D0 - D15	DATA BUS
24	Ae	Pes4	P10 - P17	PORT 1
25	Ae	Pes4	P20 - P27	PORT 2
26	Ae	Pes4	P30 - P37	PORT 3
27	Ae	Pes4	P40 - P47	PORT 4
28	Ae	Pes4	P50 - P57	PORT 5
29	Ae	Pes4	P60 - P67	PORT 6
30	Ae	Pes4	P80 - P87	PORT 8
31	Ano/Pro		RES	RESET
32	A10	ANI/Psi	SCK1, SCK2	SERIAL CLOCK (CH1, CH2)
33	A11	ANo/Ps2		
34	A12	ANo/Ps3		
35	A13			
36	A14			
37	A15			
109	MDO	IRGe/Pes0		
110	MD1	IRGe/Pes1		
111	MD2	SCk1/IRGs/Pes2		
98	EXTAL	RXD1/Pes4		
99	XTAL	TXD1/Pes5		
101	*	RXD2/Pes6		
102	F	TXD2/Pes7		
			INPUTS	OPERATION MODE
		MD2/MD1/MD0		CONTENTS
		0 0 1	MODE 1	EXTENSION MINIMUM MODE (8BIT BUS)
		0 1 0	MODE 2	EXTENSION MINIMUM MODE (16BIT BUS)
		0 1 1	MODE 3	EXTENSION MAXIMUM MODE (8BIT BUS)
		1 0 0	MODE 4	EXTENSION MAXIMUM MODE (16BIT BUS)
		1 0 1	MODE 5	
		1 1 0	MODE 6	
		1 1 1	MODE 7	SINGLE CHIP MODE



DS1000Z-100 (DALLAS SEMICONDUCTOR) FLAT PACKAGE

## C-MOS DELAY LINE

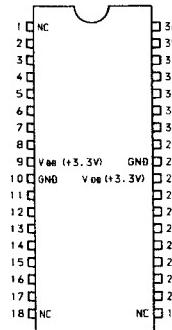
- TOP VIEW -



TYPE, NO.	DELAY TIME (ns)				
	TAP1	TAP2	TAP3	TAP4	TAP5
DS1000M-50	10	20	30	40	50
DS1000M-60	12	24	36	48	60
DS1000M-75	15	30	45	60	75
DS1000M-100	20	40	60	80	100
DS1000M-125	25	50	75	100	125
DS1000M-150	30	60	90	120	150
DS1000M-175	35	70	105	140	175
DS1000M-200	40	80	120	160	200
DS1000M-250	50	100	150	200	250
DS1000M-300	100	200	300	400	500
DS1000Z-100	20	40	60	80	100

## HM62W9127HJP-35 (HITACHI) PLCC

C-MOS 1M (128k × 9)-BIT STATIC RAM  
- TOP VIEW -



		(Vcc: +5.3V)			
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	-	NC	19	-	NC
2	I	A3	20	I	A12
3	I	A2	21	I	A11
4	I	A1	22	I	A10
5	I	A0	23	I	A9
6	I	CS	24	I	A8
7	I/O	I/O1	25	I/O	I/O5
8	I/O	I/O2	26	I/O	I/O6
9	-	Vcc (+5.3V)	27	-	Vcc
10	GND	Vcc (+3.3V)	28	-	GND
11	-	-	29	I/O	I/O7
12	-	-	30	I/O	I/O8
13	-	-	31	I/O	I/O9
14	-	-	32	I	DE
15	I	A15	33	I	A7
16	I	A14	34	I	A6
17	I	A13	35	I	A5
18	NC	NC	36	I	A4

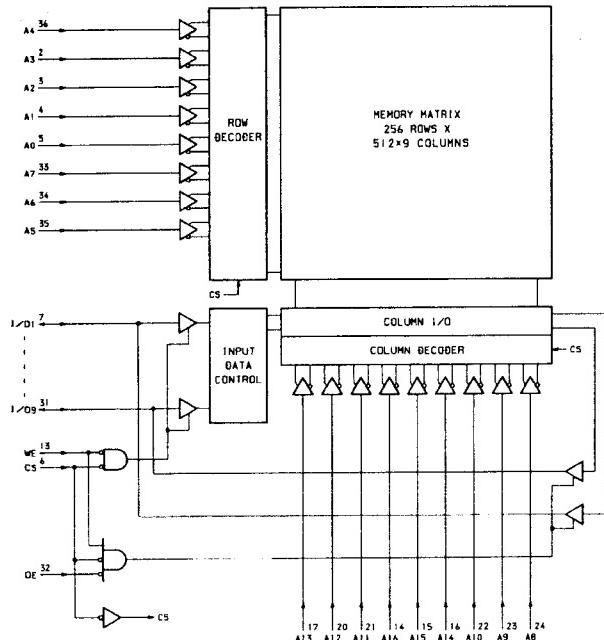
**INPUT**  
A0-A16 : ADDRESS INPUTS  
CS : CHIP SELECT  
OE : OUTPUT ENABLE INPUT  
WE : WRITE ENABLE INPUT

**INPUT/OUTPUT**  
I/O1-I/O9 : DATA INPUTS/OUTPUTS

CS	OE	WE	MODE	I/O
1	X	X	NON SELECT	HI-Z
0	1	1	OUTPUT DISABLE	HI-Z
0	0	1	READ	OUTPUT
0	X	0	WRITE	INPUT

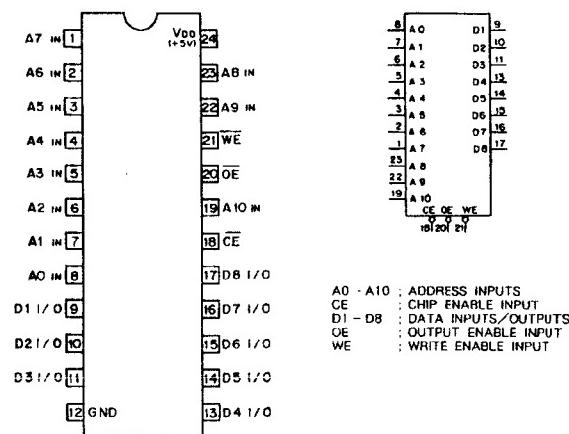
0 : LOW LEVEL  
1 : HIGH Level  
X : DON'T CARE  
HI-Z : HIGH IMPEDANCE

5	A0	I/O1	7
4	A1	I/O2	11
3	A2	I/O3	12
2	A3	I/O4	25
1	A4	I/O5	26
35	A5	I/O6	29
34	A6	I/O7	30
33	A7	I/O8	31
24	A8	I/O9	
23	A9		
22	A10		
21	A11		
20	A12		
17	A13		
16	A14		
15	A15		
14	A16		
	WE CS OE		
	13 16 32		



IDT6116SA25SO (IDT) FLAT PACKAGE  
SRM2016M10 (SEIKO EPSON) FLAT PACKAGE

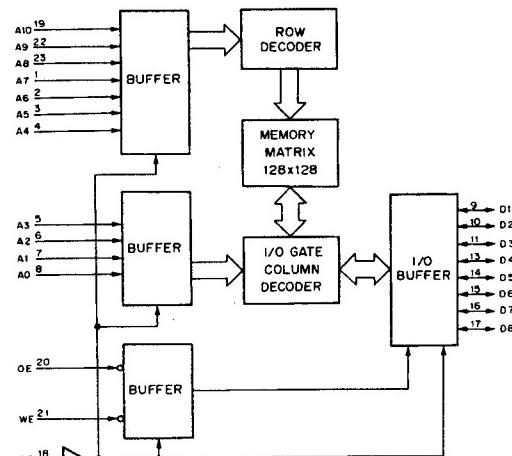
C-MOS 16K (2048 × 8)-BIT STATIC RAM  
- TOP VIEW -



## FUNCTION TABLE

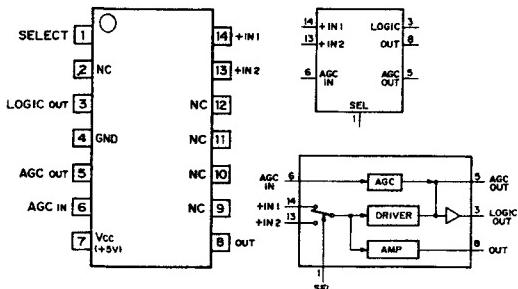
CONTROL INPUTS			MODE	D1 - D8
CE	OE	WF		
1	X	X	STANDBY	HI-Z
0	1	1	DISABLE_OUTPUT	HI-Z
0	0	1	FEAD	OUTPUT
0	X	0	WRITE	INPUT

0 : LOW LEVEL  
1 : HIGH LEVEL  
X : DON'T CARE  
HI-Z : HIGH IMPEDANCE



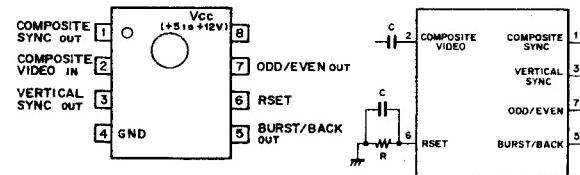
## LA7205M (SANYO)

AGC AMP, INPUT SELECT, AGC DET, COMPARATOR  
- TOP VIEW -

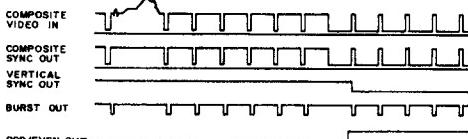


## LM1881M (NS) FLAT PACKAGE

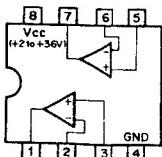
VIDEO SYNC SEPARATOR  
- TOP VIEW -



## TIMING CHART

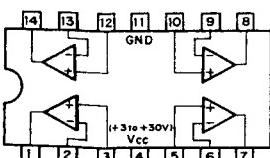
LM2903PS (TI) FLAT PACKAGE  
NJM2903M (JRC) FLAT PACKAGE

DUAL VOLTAGE COMPARATORS  
- TOP VIEW -



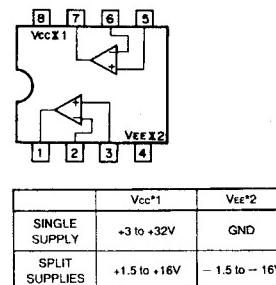
## LM324NS (TI) FLAT PACKAGE

QUAD OPERATIONAL AMPLIFIERS  
- TOP VIEW -



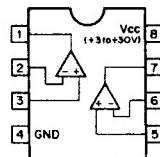
## LM358D (TI) FLAT PACKAGE

DUAL OPERATIONAL AMPLIFIER  
- TOP VIEW -



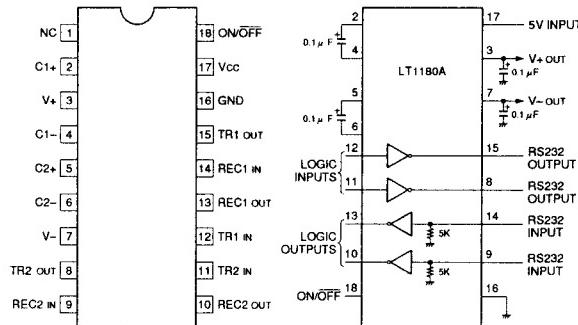
## LM358PS (TI) FLAT PACKAGE

DUAL OPERATIONAL AMPLIFIERS  
- TOP VIEW -



## LT1180ACS (LINEAR) FLAT PACKAGE

RS232 DUAL DRIVER/RECEIVER  
- TOP VIEW -

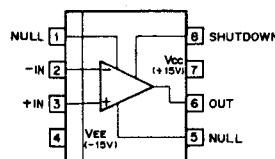


**INPUT**  
 C1+, C1-, C2+, C2- : COMMUTATING CAPACITOR  
 TR1, TR2 IN : RS232 DRIVER SIGNAL  
 ON/OFF : TTL/CMOS COMPATIBLE OPERATING MODE CONTROL  
 REC1, REC2 IN : RECEIVER

**OUTPUT**  
 V+ : POSITIVE SUPPLY (RS-232 DRIVERS)  
 V- : NEGATIVE SUPPLY (RS-232 DRIVERS)  
 TR1, TR2 OUT : RS232 DRIVER SIGNAL (RS232 LEVELS)  
 REC1, REC2 OUT : RECEIVER (TTL/CMOS VOLTAGE LEVELS)

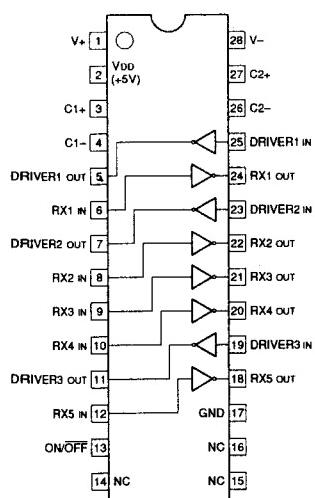
## LT1227CS8 (LINEAR TECH) FLAT PACKAGE

HIGH SPEED OPERATIONAL AMPLIFIER  
- TOP VIEW -



## LTC1337CS (LINEAR) FLAT PACKAGE

CMOS RS232 TRANSCEIVER  
- TOP VIEW -



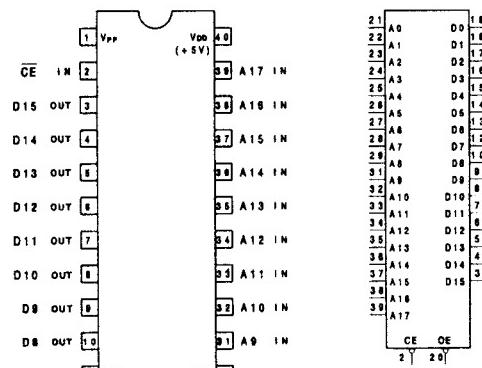
**INPUT**  
DRIVER1~3 IN : RS-232 DRIVER INPUTS  
RX1~5 IN : RECEIVER INPUTS

**OUTPUT**  
DRIVER1~3 OUT : RS-232 DRIVER OUTPUTS  
RX1~5 OUT : RECEIVER OUTPUTS TTL/CMOS VOLTAGE LEVELS

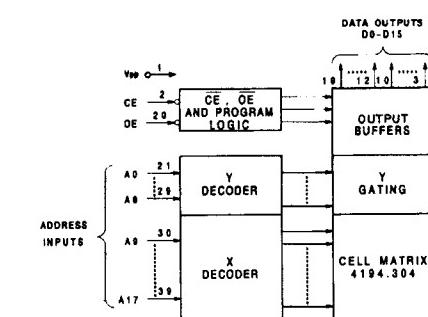
C1+,C1-,C2+,C2- : EXTERNAL CAPACITORS  
V+ : POSITIVE SUPPLY (RS-232 DRIVERS)  
V- : NEGATIVE SUPPLY (RS-232 DRIVERS)

## M27C4002-10F1 (SGS)

C-MOS 4M (256k x 16) -BIT UV EPROM  
- TOP VIEW -



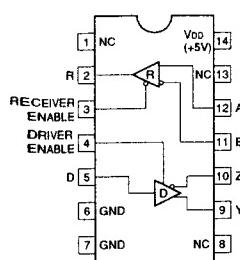
A0-A17 : ADDRESS INPUTS  
CE : CHIP ENABLE  
D0-D15 : DATA OUTPUTS  
OE : OUTPUT ENABLE  
VPP : PROGRAMMING VOLTAGE  
(PROGRAM : +12.75V)



ABOVE DIAGRAM SHOWS CONDITIONS BEFORE PROGRAMMING.

## LTC491CS (LINEAR) FLAT PACKAGE

C-MOS DIFFERENTIAL DRIVER AND RECEIVER  
- TOP VIEW -

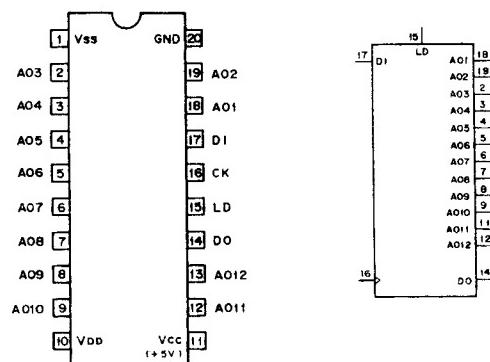


CE	OE	A9	Vpp	OUTPUT	FUNCTION
0	0	X	X	DOUT	READ
0	1	X	X	HI-Z	OUTPUT DISABLE
0	1	X	Vpp	DIN	PROGRAM
1	0	X	Vpp	DOUT	VERIFY
1	1	X	Vpp	HI-Z	PROGRAM INHIBIT
1	X	X	X	HI-Z	STANDBY
0	0	Vh	Vdd	CODE	ELECTRONIC SIGNATURE

1 : HIGH LEVEL  
0 : LOW LEVEL  
X : DON'T CARE  
HI-Z : HIGH IMPEDANCE  
Vh : 12.0 ± 0.5 V

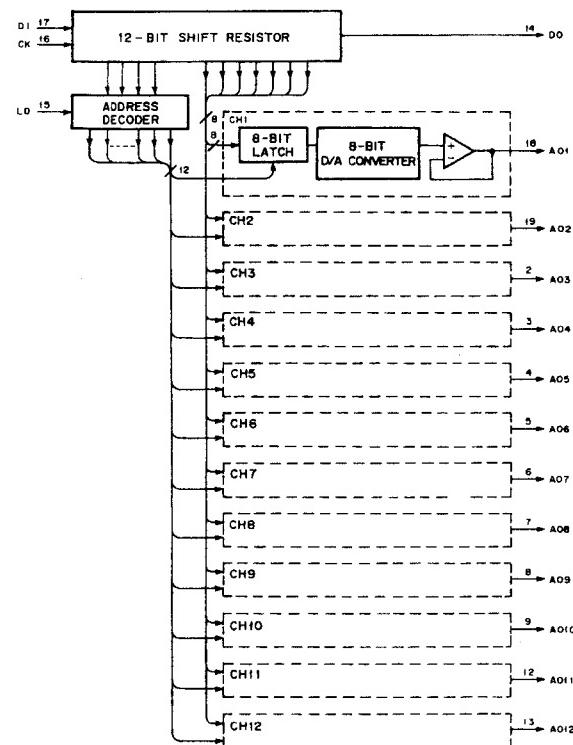
## M62352GP (MITSUBISHI) FLAT PACKAGE

C-MOS 8-BIT x 12 CHANNEL D/A CONVERTER (WITH BUFFER OPERATIONAL AMPLIFIER)  
- TOP VIEW -



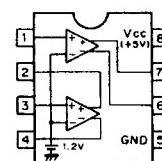
A01 ~ A012 : 8-BIT D/A OUTPUT  
CK : CLOCK INPUT  
DI : SERIAL DATA INPUT  
DO : DATA OUTPUT

NOTE:  
3.5V < Vdd < Vcc  
- 3.5V < Vss < Vcc



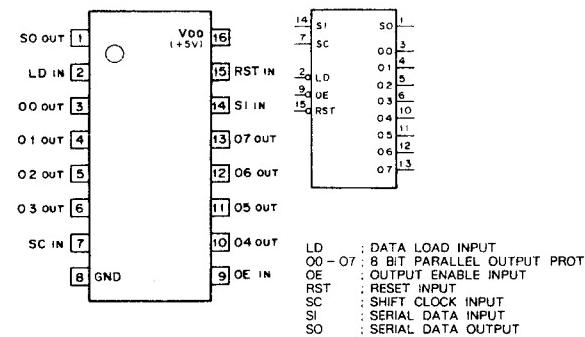
## MB3761PF (FUJITSU) FLAT PACKAGE

VOLTAGE DETECTOR  
- TOP VIEW -

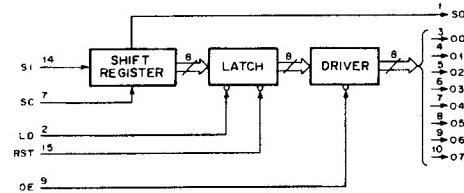


## MB88306PF (FUJITSU) FLAT PACKAGE

C-MOS OUTPUT EXPANDER  
- TOP VIEW -

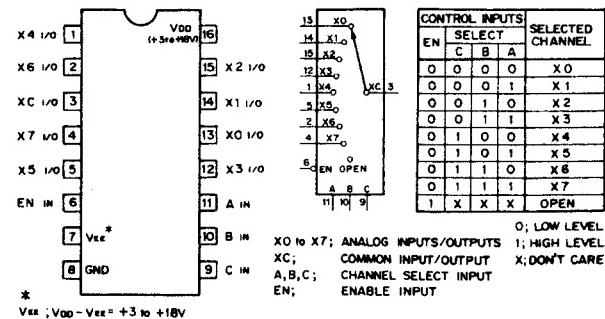


LD : DATA LOAD INPUT  
O0 ~ O7 : 8-BIT PARALLEL OUTPUT PROT  
OE : OUTPUT ENABLE INPUT  
RST : RESET INPUT  
SC : SHIFT CLOCK INPUT  
SI : SERIAL DATA INPUT  
SO : SERIAL DATA OUTPUT



## MC14051BF (MOTOROLA) FLAT PACKAGE

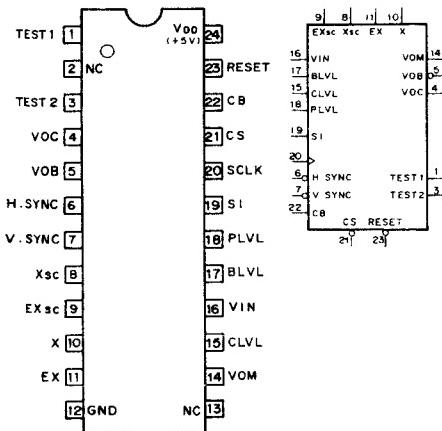
C-MOS 8-CHANNEL ANALOG MULTIPLEXER/DEMULTIPLEXER  
- TOP VIEW -



\* Vee : Vdd - Vee = +3 to +18V

## MB88323A-PF-K2 (FUJITSU) FLAT PACKAGE

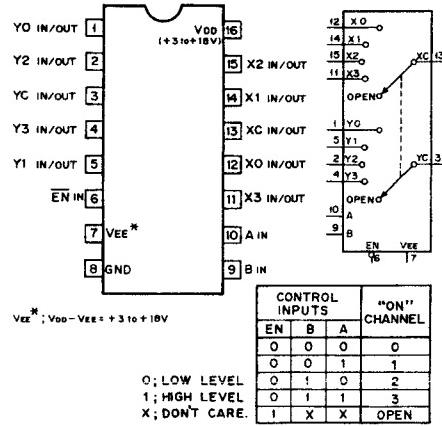
C-MOS TV DISPLAY CONTROLLER  
- TOP VIEW -



BLVL : BORDER OR BACKGROUND ANALOG LEVEL INPUT  
CB : COLOR BURST DETECTION INPUT  
CLVL : CHARACTER ANALOG LEVEL INPUT  
CS : CHIP SELECT INPUT  
EX : DOT CLOCK INPUT  
EXsc : COLOR BURST CLOCK INPUT  
H.SYNC : H SYNC INPUT  
PLVL : VIDEO LEVEL CONTROL INPUT  
SI : SERIAL DATA INPUT  
TEST1 : CHIP TEST OUTPUT  
TEST2 : (NORMALLY SET TO OPEN)  
VIN : VIDEO SIGNAL INPUT  
VOB : BORDER OR BACKGROUND SIGNAL OUTPUT  
VOC : CHARACTER SIGNAL OUTPUT  
VOM : VIDEO/CHARACTER/BORDER OR BACKGROUND  
MIX OUTPUT  
V.SYNC : V SYNC INPUT  
X : DOT CLOCK OUTPUT  
Xsc : COLOR BURST CLOCK OUTPUT

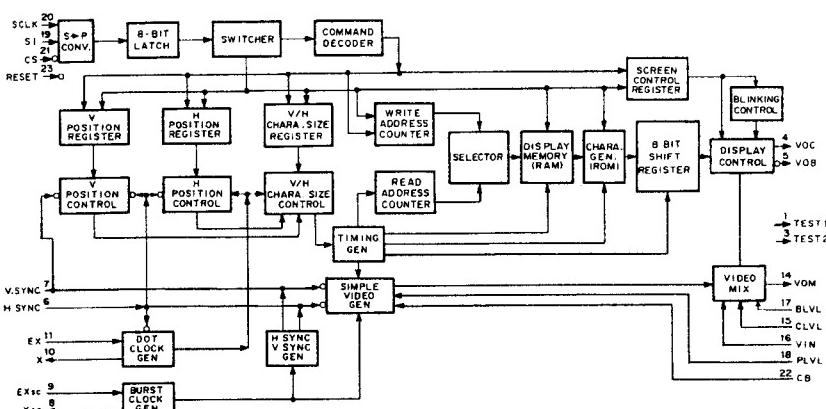
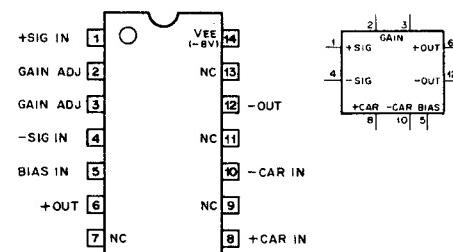
## MC14052BF (MOTOROLA) FLAT PACKAGE

C-MOS DUAL 4-CHANNEL ANALOG MULTIPLEXERS/DEMULTIPLEXERS  
- TOP VIEW -



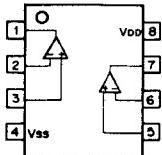
## MC1496M (MOTOROLA) FLAT PACKAGE

BALANCED MODULATOR/DEMODULATOR  
- TOP VIEW -



## MC14577CF (MOTOROLA) FLAT PACKAGE

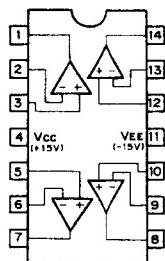
C-MOS DUAL VIDEO AMPLIFIERS  
- TOP VIEW -



$V_{DD} + V_{SS} = +5V \text{ to } +12V$

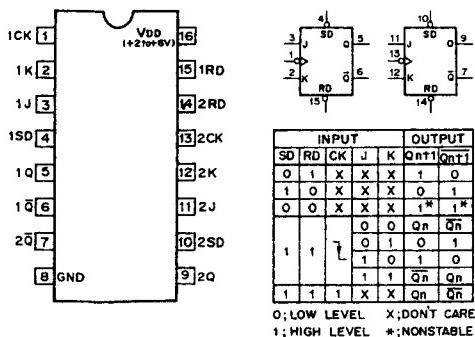
## MC34184M (MOTOROLA) FLAT PACKAGE

JFET INPUT OPERATIONAL AMPLIFIER  
- TOP VIEW -

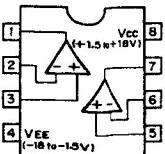


## MC74HC112F (MOTOROLA) FLAT PACKAGE

C-MOS J-K FLIP-FLOP WITH DIRECT SET/RESET  
- TOP VIEW -

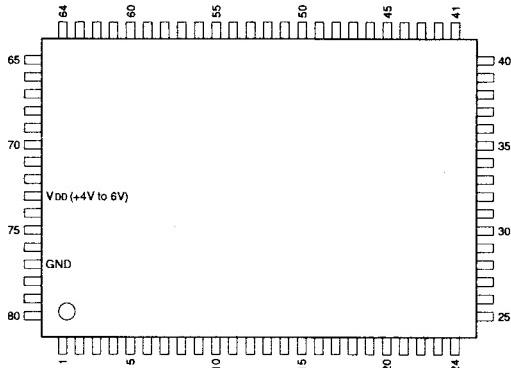
NJM062M (JRC) FLAT PACKAGE  
TL062CPW (TI) FLAT PACKAGE

OPERATIONAL AMPLIFIER (J FET INPUT)  
- TOP VIEW -



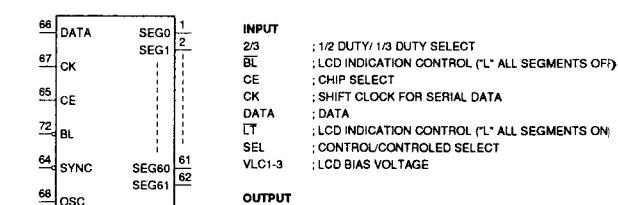
## MSM6660-01GS-V1K (OKI)

C-MOS LCD DRIVER  
- TOP VIEW -



NOTE :  $V_{DD} \geq VLC1 \geq VLC2 \geq VLC3 \geq GND$

PIN No.	I/O	SIGNAL									
1	O	SEG0	21	O	SEG20	41	O	SEG40	61	O	SEG60
2	O	SEG1	22	O	SEG21	42	O	SEG41	62	O	SEG61
3	O	SEG2	23	O	SEG22	43	O	SEG42	63	O	COM OUT
4	O	SEG3	24	O	SEG23	44	O	SEG43	64	I/O	SYNC
5	O	SEG4	25	O	SEG24	45	O	SEG44	65	I	CE
6	O	SEG5	26	O	SEG25	46	O	SEG45	66	I	DATA
7	O	SEG6	27	O	SEG26	47	O	SEG46	67	I	CK
8	O	SEG7	28	O	SEG27	48	O	SEG47	68	I/O	OSC
9	O	SEG8	29	O	SEG28	49	O	SEG48	69	I	SEL
10	O	SEG9	30	O	SEG29	50	O	SEG49	70	I	2/3
11	O	SEG10	31	O	SEG30	51	O	SEG50	71	I	LT
12	O	SEG11	32	O	SEG31	52	O	SEG51	72	I	BL
13	O	SEG12	33	O	SEG32	53	O	SEG52	73	-	V <sub>DD</sub>
14	O	SEG13	34	O	SEG33	54	O	SEG53	74	I	VLC1
15	O	SEG14	35	O	SEG34	55	O	SEG54	75	I	VLC2
16	O	SEG15	36	O	SEG35	56	O	SEG55	76	I	VLC3
17	O	SEG16	37	O	SEG36	57	O	SEG56	77	-	GND
18	O	SEG17	38	O	SEG37	58	O	SEG57	78	O	COM1
19	O	SEG18	39	O	SEG38	59	O	SEG58	79	O	COM2
20	O	SEG19	40	O	SEG39	60	O	SEG59	80	O	COM3



**INPUT**

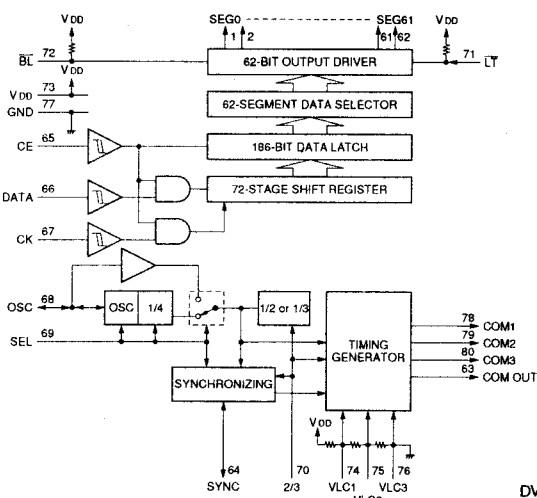
- 66 DATA SEG0 SEG1
- 67 CK
- 65 CE
- 72 BL
- 64 SYNC SEG60 SEG61
- 68 OSC
- 69 SEL
- 71 LT
- 70 2/3
- 74 VLC1 COM OUT
- 75 VLC2 COM1
- 76 VLC3 COM2
- 77 2/3
- 78 VLC3 COM3
- 79 2/3
- 80 2/3

**OUTPUT**

- COM OUT : SYNC CLOCK FOR LCD
- COM1-3 : COMMON SIGNAL FOR LCD DRIVE
- SEG0-61 : SEGMENT SIGNAL FOR LCD

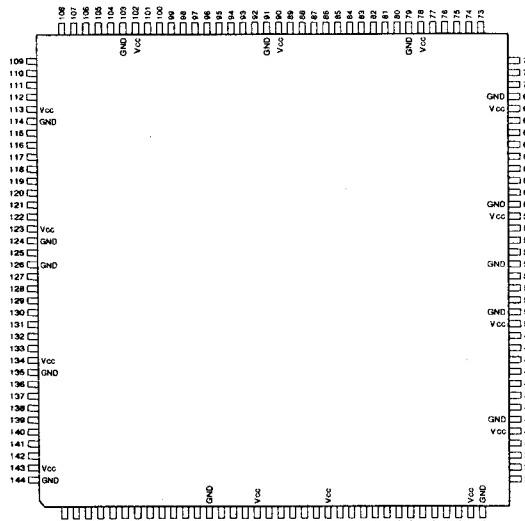
**INPUT/OUTPUT**

- OSC ; OSC
- SYNC ; SYNC SIGNAL

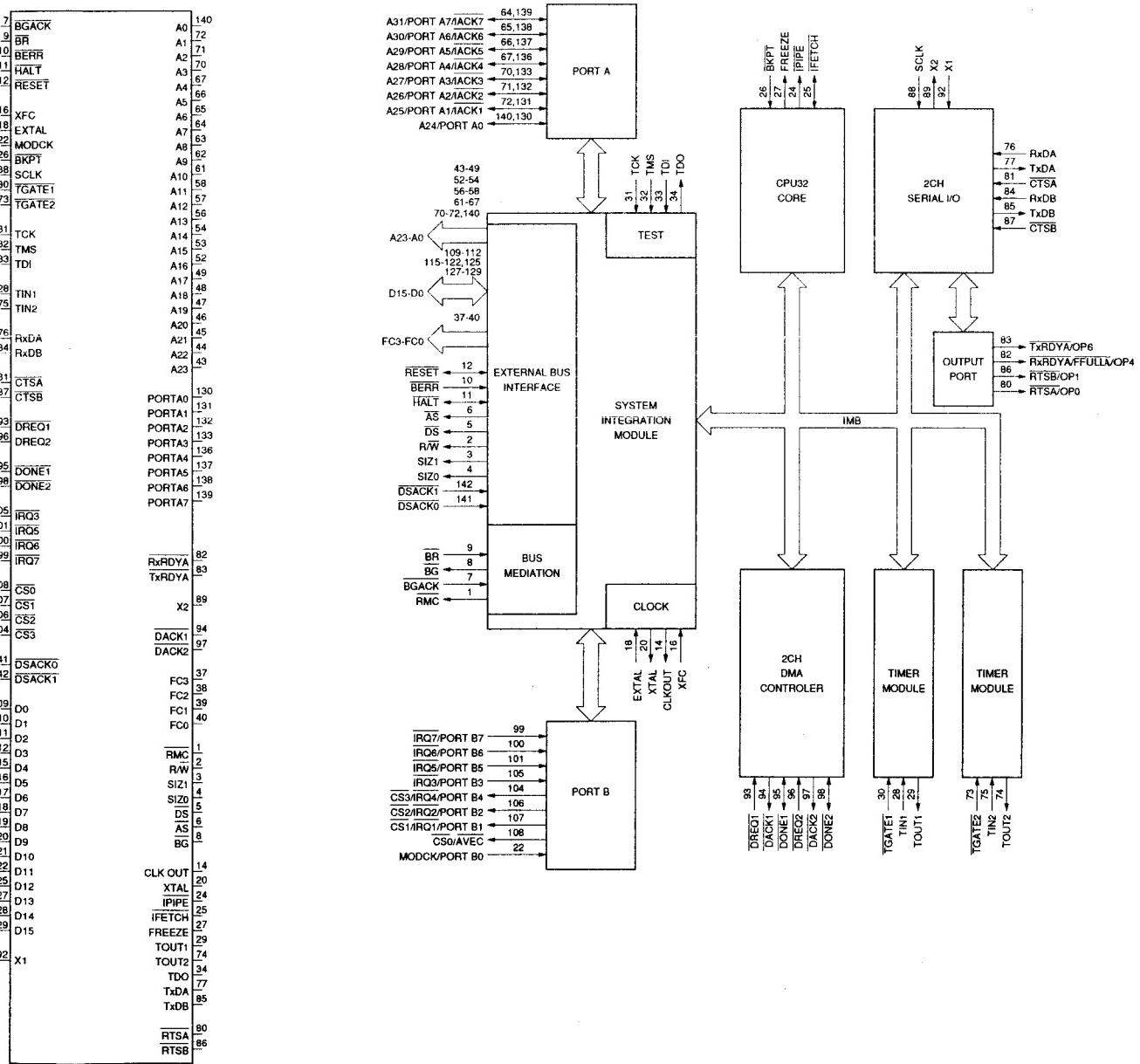


**MC68340FE16B (MOTOROLA)**  
**MC68340FE16C (MOTOROLA)**

32-BIT MICROPROCESSOR  
 - TOP VIEW -

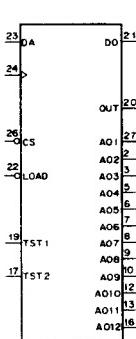
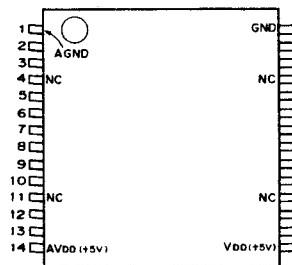


PIN No.	I/O	SIGNAL	SIGNAL NAME	PIN No.	I/O	SIGNAL	SIGNAL NAME	PIN No.	I/O	SIGNAL	SIGNAL NAME	PIN No.	I/O	SIGNAL	SIGNAL NAME
1	O	RMC	READ-MODIFY-WRITE CYCLE	41	-	VCC		81	I	CTSA	CLEAR-TO-SEND	121	I/O	D10	DATA BUS
2	O	R/W	READY/WRITE	42	-	GND		82	O	RXRDY	RECEIVER READY/FIFO FULL/OP4	122	I/O	D11	DATA BUS
3	O	SIZ1	SIZE	43	O	A23	ADDRESS BUS	83	O	TxRDY	TRANSMITTER READY/OP8	123	-	VCC	
4	O	SIZ0	SIZE	44	O	A22	ADDRESS BUS	84	I	RxD	RECEIVE DATA	124	-	GND	
5	O	DS	DATA STROBE	45	O	A21	ADDRESS BUS	85	O	TxD	TRANSMIT DATA	125	I/O	D12	DATA BUS
6	O	AS	ADDRESS STROBE	46	O	A20	ADDRESS BUS	86	O	RTSB	REQUEST-TO-SEND/OP1,OP0	126	-	GND	
7	I	BGACK	BUS GRANT ACKNOWLEDGE	47	O	A19	ADDRESS BUS	87	I	CTS	CLEAR-TO-SEND	127	I/O	D13	DATA BUS
8	O	BG	BAS GRANT	48	O	A18	ADDRESS BUS	88	I	SCLK	SERIAL CLOCK	128	I/O	D14	DATA BUS
9	I	BR	BUS REQUEST	49	O	A17	ADDRESS BUS	89	O	X2	SERIAL CRYSTAL OSCILLATOR	129	I/O	D15	DATA BUS
10	I	BERR	BUS ERROR	50	-	VCC		90	-	VCC		130	I/O	A24	ADDRESS BUS/PORT A0 INTERRUPT ACKNOWLEDGE
11	VO	HALT	HALT	51	-	GND		91	-	GND		131	I/O	A25	INTERRUPT ACKNOWLEDGE
12	VO	RESET	RESET	52	O	A16	ADDRESS BUS	92	I	X1	SERIAL CRYSTAL OSCILLATOR	132	I/O	A26	INTERRUPT ACKNOWLEDGE
13	-	GND		53	O	A15	ADDRESS BUS	93	I	DREQ1	DMA REQUEST	133	I/O	A27	ADDRESS BUS/PORT A3 INTERRUPT ACKNOWLEDGE
14	O	CLKOUT	SYSTEM CLOCK	54	O	A14	ADDRESS BUS	94	O	DACK1	DMA ACKNOWLEDGE	134	-	VCC	
15	-	Vcc		55	-	GND		95	I/O	DONE1	DMA DONE	135	-	GND	
16	I	XFC	EXTERNAL FILTER CAPACITOR	56	O	A13	ADDRESS BUS	96	I	DREQ2	DMA REQUEST	136	I/O	A28	ADDRESS BUS/PORT A1 INTERRUPT ACKNOWLEDGE
17	-	Vcc		57	O	A12	ADDRESS BUS	97	O	DACK2	DMA ACKNOWLEDGE	137	I/O	A29	INTERRUPT ACKNOWLEDGE
18	-	EXTAL	CRYSTAL OSCILLATOR	58	O	A11	ADDRESS BUS	98	I/O	DONE2	DMA DONE	138	I/O	A30	ADDRESS BUS/PORT A6 INTERRUPT ACKNOWLEDGE
19	-	Vcc SYN	SYNCHRONIZER POWER	59	-	VCC		99	I	IRQ7	INTERRUPT REQUEST LEVEL	139	I/O	A31	ADDRESS BUS/PORT A7 INTERRUPT ACKNOWLEDGE
20	O	XTAL	CRYSTAL OSCILLATOR	60	-	GND		100	I	IRQ6	INTERRUPT REQUEST LEVEL	140	O	A0	ADDRESS BUS
21	-	GND		61	O	A10	ADDRESS BUS	101	I	IRQ5	INTERRUPT REQUEST LEVEL PORT B7,B8,B9,B3	141	I	DSACK0	DATA AND SIZE ACKNOWLEDGE
22	I	MODCH	CLOCK MODE SELECT/PORT B0	62	O	A9	ADDRESS BUS	102	-	VCC		142	I	DSACK1	DATA AND SIZE ACKNOWLEDGE
23	-	Vcc		63	O	A8	ADDRESS BUS	103	-	GND		143	-	VCC	
24	O	IPipe	INSTRUCTION PIPELINE	64	O	A7	ADDRESS BUS	104	O	CS3	CHIP SELECT 3/INTERRUPT REQUEST	144	-	GND	
25	I/O	IFETCH	DEVELOPMENT SERIAL IN/OUT	65	O	A6	ADDRESS BUS	105	I	IRQ3	INTERRUPT REQUEST LEVEL PORT B7,B8,B9,B3				
26	I	BKPT	BREAKPOINT REQUEST	66	O	A5	ADDRESS BUS	106	O	CS2	CHIP SELECT 2/INTERRUPT REQUEST				
27	O	FREEZE	FREEZE	67	O	A4	ADDRESS BUS	107	O	CS1	CHIP SELECT 1/INTERRUPT REQUEST				
28	I	TIN1	TIMER INPUT	68	-	VCC		108	O	CS0	CHIP SELECT QUAUTOVECTOR				
29	O	TOUT1	TIMER OUTPUT	69	-	GND		109	I/O	D0	DATA BUS				
30	I	TGATE1	TIMER GATE	70	O	A3	ADDRESS BUS	110	I/O	D1	DATA BUS				
31	I	TK	TEST CLOCK	71	O	A2	ADDRESS BUS	111	I/O	D2	DATA BUS				
32	I	TMS	TEST MODE SELECT	72	O	A1	ADDRESS BUS	112	I/O	D3	DATA BUS				
33	I	TDI	TEST DATA IN	73	I	TGATE2	TIMER GATE	113	-	VCC					
34	O	TDO	TEST DATA OUT	74	O	TOUT2	TIMER OUTPUT	114	-	GND					
35	-	Vcc		75	I	TIN2	TIMER INPUT	115	I/O	D4	DATA BUS				
36	-	GND		76	I	RxD	RECEIVE DATA	116	I/O	D5	DATA BUS				
37	O	FC3	FUNCTION CODE	77	O	TxD	TRANSMIT DATA	117	I/O	D6	DATA BUS				
38	O	FC2	FUNCTION CODE	78	-	VCC		118	I/O	D7	DATA BUS				
39	O	FC1	FUNCTION CODE	79	-	GND		119	I/O	D8	DATA BUS				
40	O	FC0	FUNCTION CODE	80	O	RTS	REQUEST-TO-SEND/OP1,OP0	120	I/O	D9	DATA BUS				



## MSM6524GS-VK (OKI) FLAT PACKAGE

C-MOS 12 CHANNELS 8-BITS D-A CONVERTER WITH 96-BIT EEPROM  
- TOP VIEW -



PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	-	A GND	15	-	V <sub>DD</sub> (+ 5 V)
2	O	AO2	16	O	AO12
3	O	AO3	17	I	TST2
4	-	NC	18	-	NC
5	O	AO4	19	I	TST1
6	O	AO5	20	O	OUT
7	O	AO6	21	O	DO
8	O	AO7	22	I	LOAD
9	O	AO8	23	I	DA
10	O	AO9	24	I	CLK
11	-	NC	25	-	NC
12	O	AO10	26	I	CS
13	O	AO11	27	O	AO1
14	-	V <sub>DD</sub> (+ 5 V)	28	-	GND

**INPUT**  
 CLK : SHIFT CLOCK  
 CS : WRITE MODE PROTECT  
 DA : SERIAL DATA  
 LOAD : LOAD INPUT OF 8-BIT SHIFT REGISTER  
 TST1, TST2 : TEST PINS

**OUTPUT**  
 A00-A012: 8-BIT D/A OUTPUTS  
 DO : LSB BIT DATA OF 8-BIT SHIFT REGISTER  
 OUT : MONITOR PIN

1st BYTE								2nd BYTE							
D0	D1	D2	D3	D4	D5	D6	D7	D0	D1	D2	D3	D4	D5	D6	D7
1	0	0	1	A0	A1	A2	A3	10	11	12	13	14	15	16	17

MODE SELECT    ADDRESS SELECT    DA DATA SET

1st BYTE								2nd BYTE							
D0	D1	D2	D3	D4	D5	D6	D7	D0	D1	D2	D3	D4	D5	D6	D7
1	1	1	1	A0	A1	A2	A3	10	11	12	13	14	15	16	17

MODE SELECT    ADDRESS SELECT    DA DATA SET

1st BYTE								2nd BYTE							
D0	D1	D2	D3	D4	D5	D6	D7	D0	D1	D2	D3	D4	D5	D6	D7
0	0	1	1	A0	A1	A2	A3	00	01	02	03	04	05	06	07

MODE SELECT    ADDRESS SELECT    MEMORY DATA OUTPUT

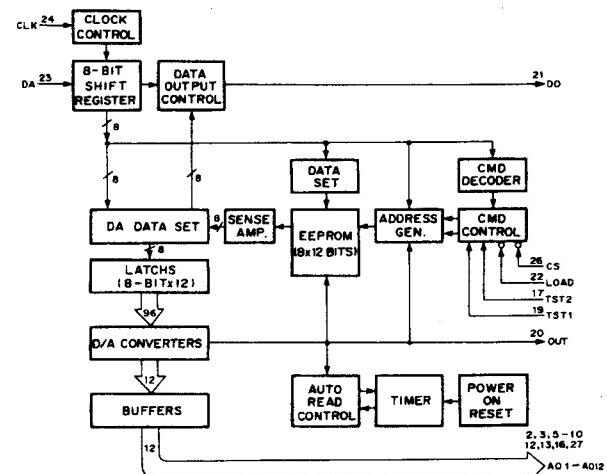
0 : LOW LEVEL  
1 : HIGH LEVEL

MODE SELECT			
D0	D1	D2	D3
1	0	0	1
1	1	1	1
0	0	1	1
OTHERS			
DONT CARE			

ADDRESS SELECT			
D4	D5	D6	D7
A0	A1	A2	A3
0	0	0	0
1	0	0	0
0	1	0	0
1	1	0	0
0	0	1	0
1	0	1	0
0	1	1	0
1	1	1	0
0	0	0	1
1	1	0	1
0	0	1	1
1	1	1	1
D/A OUTPUT			

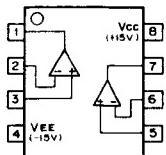
D0	D1	D2	D3	D4	D5	D6	D7
10	11	12	13	14	15	16	17
0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0
0	1	0	0	0	0	0	0
1	1	0	0	0	0	0	0
0	0	1	0	0	0	0	0
1	1	1	1	1	1	1	1
0	0	1	1	1	1	1	1
1	1	1	1	1	1	1	1

0 : LOW LEVEL  
1 : HIGH LEVEL



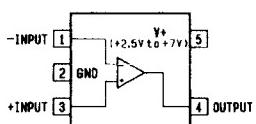
## NJM072BM (JRC) FLAT PACKAGE

LOW NOISE OPERATIONAL AMPLIFIER  
- TOP VIEW -



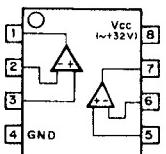
## NJM2406F (JRC) FLAT PACKAGE

SINGLE COMPARATOR  
- TOP VIEW -



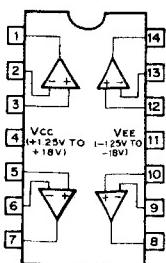
## NJM2904M (JRC) FLAT PACKAGE

OPERATIONAL AMPLIFIER  
- TOP VIEW -



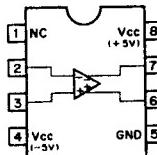
## NJM3403AM (JRC) FLAT PACKAGE

QUAD OPERATIONAL AMPLIFIER  
- TOP VIEW -



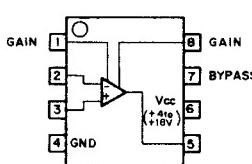
## NJM360M (JRC) FLAT PACKAGE

HIGH SPEED VOLTAGE COMPARATOR (TTL OUTPUT)  
- TOP VIEW -



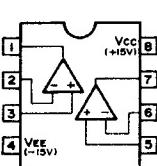
## NJM386BM (JRC) FLAT PACKAGE

AUDIO POWER AMPLIFIER  
- TOP VIEW -



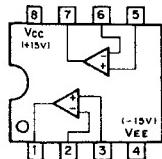
## NJM4556M (JRC) FLAT PACKAGE

OPERATIONAL AMPLIFIER (WIDE BAND, DECOMPENSATED)  
- TOP VIEW -

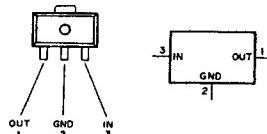


**NJM4565M-A (JRC) FLAT PACKAGE**

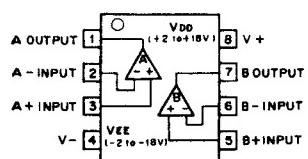
DUAL OPERATIONAL AMPLIFIER  
—TOP VIEW—

**NJM78L05UA (JRC) +5 V (100 mA)**

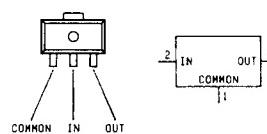
POSITIVE VOLTAGE REGULATOR  
—SIDE VIEW—

**NJM4580E (JRC) FLAT PACKAGE**

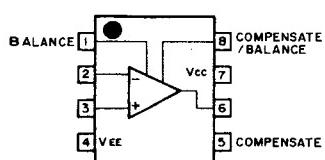
OPERATIONAL AMPLIFIER  
—TOP VIEW—

**NJM79L05UA (JRC) -5 V (100 mA)**

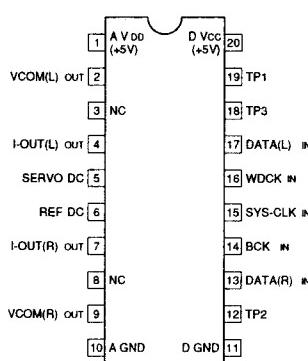
VOLTAGE REGULATOR  
—SIDE VIEW—

**NJM5534M (JRC) FLAT PACKAGE**

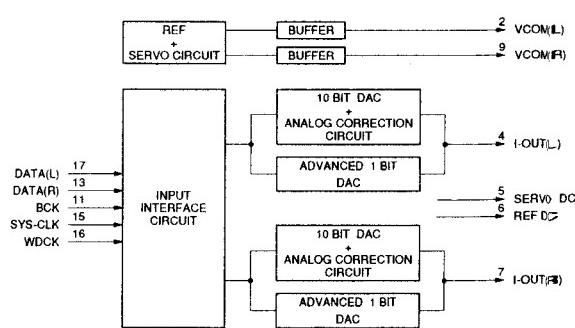
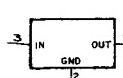
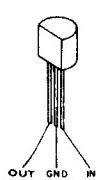
OPERATIONAL AMPLIFIER  
—TOP VIEW—

**PCM69U-J (NBB)**

C-MOS DUAL 18-BIT D/A CONVERTER  
—TOP VIEW—

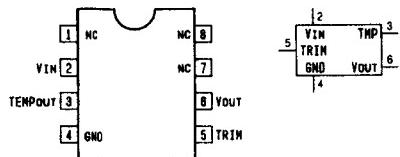
**NJM78L05A (JRC) +5 V (100 mA)**

POSITIVE VOLTAGE REGULATOR  
—TOP VIEW—



## REF-03GS (PMI)

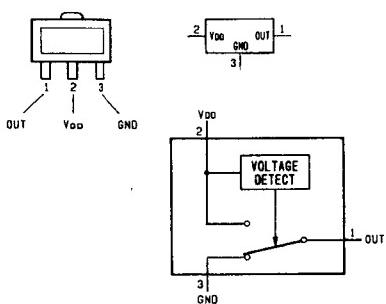
REFERENCE/TEMPERATURE TRANSDUCER  
- TOP VIEW -



VIN : INPUT VOLTAGE (+4.5V to +33V)  
TEMPOUT : TEMPERATURE TRANSDUCER VOLTAGE OUTPUT  
TRIMIN : INPUT SIGNAL TRIMMING  
VOUT : OUTPUT VOLTAGE (-2.5V)

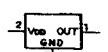
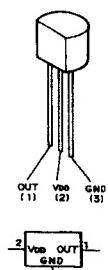
## S-8052-ANY-NH (SEIKO I AND E)

C-MOS VOLTAGE DETECTOR  
- TOP VIEW -



S-8052ALY (SEIKO I AND E) 2.60 V—2.80 V  
S-8054HN (SEIKO I AND E) 3.80 V—4.20 V

C-MOS VOLTAGE DETECTOR  
- TOP VIEW -



## SBX1601A (SONY)

8- OR 10-BIT PARALLEL-TO-SERIAL CONVERTER  
- BOTTOM VIEW -

INDEX	0	1	2	3	4	5	6	7	8	9	10
0	0	0	0	0	0	0	0	0	0	0	0
1	2	3	4	5	6	7	8	9	10		
2	36	37									
3	35										
4	34										
5	33										
6	32										
7	31										
8	30										
9	29										
10	28	27	26	25	24	23	22	21	20	19	
11	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0

INPUT  
D9X : D0X, D9Y : D0Y : PARALLEL DATA INPUTS  
PCX, PCY : PARALLEL CLOCK INPUTS  
FV : VCO FREQ. ADJ. INPUT  
RSE : VCO RANGE SELECT INPUT (H : HIGH RANGE)  
TE1 : TEST TERMINAL (LOW = TEST)  
TTL/ECL : VCC FOR INPUT LEVEL SELECT  
(+ 5V = TTL, GND = ECL)

OUTPUT  
LST : PLL LOCK DETECT OUTPUT (H : LOCK)  
PCK : PARALLEL CLOCK OUTPUT  
SX, SY : SERIAL DATA OUTPUTS  
TE2 : TEST TERMINAL

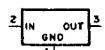
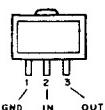
VEE1 = -5V  
VEE2 = -3.5V

INDEX	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	9

S-81250HG-RD (SEIKO I AND E) +5.0V FLAT PACKAGE

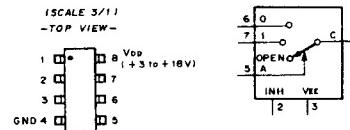
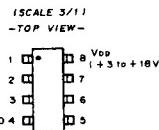
THREE TERMINAL POSITIVE VOLTAGE REGULATOR

- TOP VIEW -



TC4W53F (TOSHIBA) CHIP PACKAGE (5.0 × 3.1)  
TC4W53FU (TOSHIBA) CHIP PACKAGE

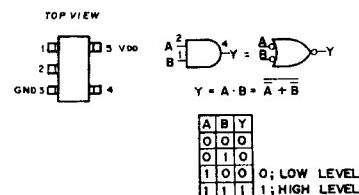
C-MOS 2-CHANNEL MULTIPLEXER/DEMULTIPLEXER



CONT. INPUT	ON CHANNEL
INH	0
0	0
0	1
X	OPEN

TC4S81F (TOSHIBA) CHIP PACKAGE  
TC7508F (TOSHIBA) CHIP PACKAGE

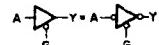
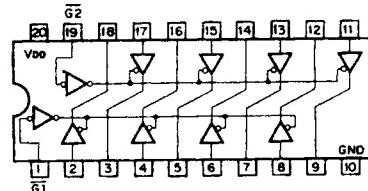
C-MOS 2-INPUT AND GATE



TYPE	V <sub>DD</sub>
7S08F	+2 to +6V
7S08FU	+2 to +6V
4S81F	+3 to +18V
14S81F	+3 to +18V
7SH08FU	-2 to +5.5V

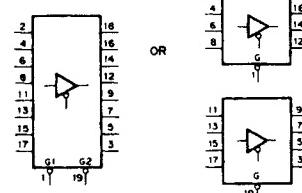
SN74HCT244ANS (TI) FLAT PACKAGE  
TC74VHC244F (TOSHIBA) FLAT PACKAGE  
TC74VHC244FS (TOSHIBA) FLAT PACKAGE (SMALL)  
TC74VHCT244FS (TOSHIBA) FLAT PACKAGE

C-MOS BUS BUFFER WITH 3-STATE OUTPUTS  
-TOP VIEW-



G	A	Y
0	0	0
0	1	1
X	X	Hi-Z

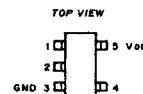
0: LOW LEVEL  
1: HIGH LEVEL  
X: DON'T CARE  
Hi-Z: HIGH IMPEDANCE



NOTE:	TYPE	V <sub>DD</sub>
	AC	+2 to +6V
	HC	+2 to +6V
	40H	+2 to +6V
	ACT	+5V
	BGT	+5V
	FCT	+5V
	HCT	+5V
	TC74AC244 TYPE TC74VHC244	+2 to +5V

TC7S86F (TOSHIBA) CHIP PACKAGE  
TC7S86FU (TOSHIBA) CHIP PACKAGE

C-MOS 2-INPUT EXCLUSIVE OR GATE

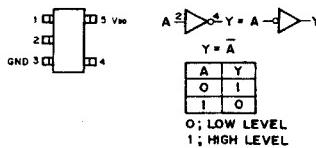


A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

0: LOW LEVEL  
1: HIGH LEVEL

SC7S04F (MOTOROLA) CHIP PACKAGE  
TC4S69F (TOSHIBA) CHIP PACKAGE  
TC4SU69F (TOSHIBA) CHIP PACKAGE

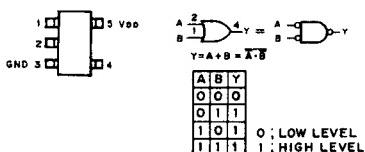
C-MOS INVERTER  
- TOP VIEW -



TYPE	V <sub>DD</sub>
7S04F	+ 2 to + 6V
7SU04F	+ 3 to + 18V
4S69F	+ 2 to + 5.5V

SC7S32F (MOTOROLA) CHIP PACKAGE  
TC7SH32FU (TOSHIBA) CHIP PACKAGE

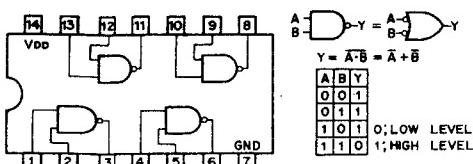
C-MOS 2-INPUT OR GATE  
- TOP VIEW -



TYPE	V <sub>DD</sub>
7S32F	+ 2 to + 6V
7S32FU	+ 2 to + 6V
4S71F	+ 3 to + 18V
7SH32FU	- 2 to + 5.5V

SN74HC00ANS (TI) FLAT PACKAGE  
TC74VHC00F (TOSHIBA) FLAT PACKAGE  
TC74VHC00FS (EL) (TOSHIBA) FLAT PACKAGE (SMALL)

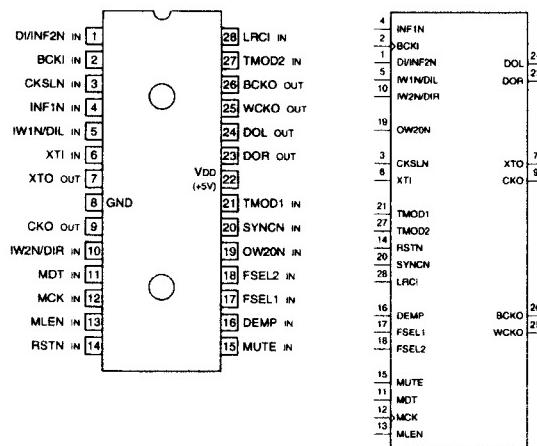
C-MOS QUAD 2-INPUT NAND GATES  
- TOP VIEW -



TYPE	V <sub>DD</sub>
TC74AC00 TYPE	+2 to +5.5V
TC74VHC00	+5V
MC74HC00N	+5V
74ACT00 TYPE	+4.5 to +5.5V
OTHER TYPES	+2 to +6V

### SM5843AS1 (NPC)

C-MOS DIGITAL FILTER  
- TOP VIEW -



### INPUT

BCKI : INPUT BIT CLOCK  
CKSLN : INPUT FREQUENCY SELECT (H: 384fs/L: 256fs)  
DEMP : DE-EMPHASIS CONTROL (L: OFF/H: ON)  
DINF2N : INPUT DATA (INF1N = L)/INPUT FORMAT SELECT 2 (INF1N = H)  
FSEL1, 2 : DE-EMPHASIS SELECT

fs (Hz)	32k	44.1k	48k	TEST MODE
SETTING	FSEL1 H	L	L	H
	FSEL2 H	L	H	L

INF1N : INPUT FORMAT SELECT 1

IW1NDIL : INPUT WORD LENGTH 1 (INF1N = L)/Lch DATA INPUT (TNF1N = H)

IW2NDIR : INPUT WORD LENGTH 2 (INF1N = L)/Rch DATA INPUT (TNF1N = H)

LRCI : SAMPLE RATE CLOCK (fs)

MCK : ATTENUATION BIT CLOCK

MDT : ATTENUATION SERIAL DATA

MLEN : ATTENUATION LATCH CLOCK

MUTE : MUTE CONTROL

OW20N : OUTPUT WORD LENGTH

OUTPUT WORD LENGTH (BIT)	18	20
OW20N	H	L

RSTN : SYSTEM RESET (L: RESET/H: NORMAL)

SYNCN : SYNC MODE SELECT (L: EXECUTION SYNC MODE/H: JITTER FREE MODE)

TMOD1 : DITHER ON/OFF SELECT (L: ON/H: OFF)

TMOD2 : FILTER CHARACTER SELECT

XTI : OSCILLATOR INPUT

### OUTPUT

BCKO : OUTPUT BIT CLOCK

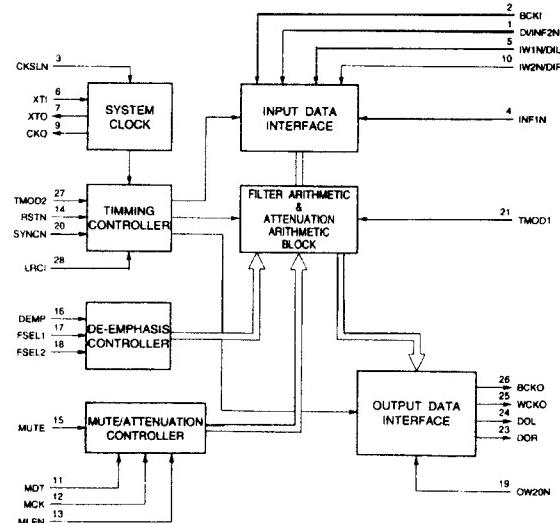
CKO : OSCILLATOR OUTPUT CLOCK

DOL : Lch DATA

DOR : Rch DATA

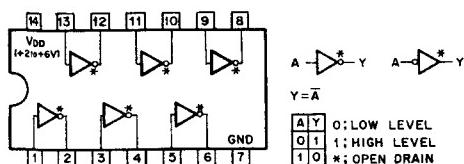
WCKO : OUTPUT WORD CLOCK

XTO : OSCILLATOR OUTPUT



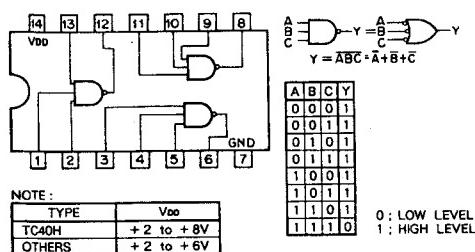
## SN74HC05ANS (TI) FLAT PACKAGE

C-MOS HEX INVERTER WITH OPEN-DRAIN  
- TOP VIEW -



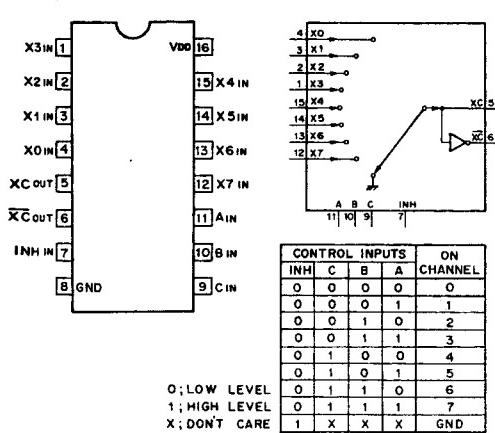
## SN74HC10ANS (TI) FLAT PACKAGE

C-MOS 3-INPUT NAND GATE  
- TOP VIEW -



## SN74HC151ANS (TI) FLAT PACKAGE

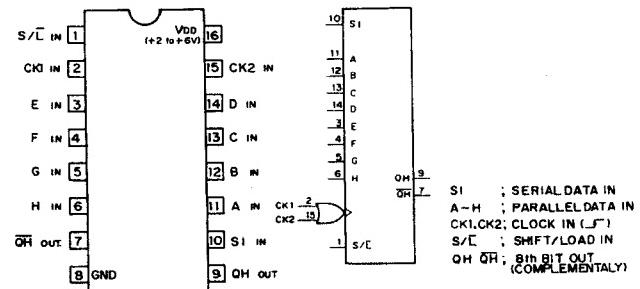
C-MOS 8-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER  
- TOP VIEW -



TYPE	V <sub>DD</sub>
HC	+2 to +6V
ACV/HC	+2 to +5.5V
HCT/ACT/FCT	+5V

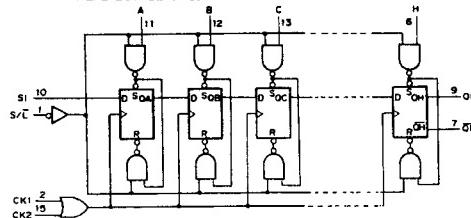
SN74HC165ANS (TI) FLAT PACKAGE  
TC74VHC165FS (TOSHIBA) FLAT PACKAGE

C-MOS SERIAL- OR PARALLEL-INPUT SHIFT REGISTER  
- TOP VIEW -

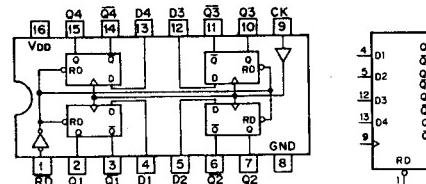


S/L	CK1+CK2	SI	INPUTS		CONTENTS		OUTPUT	OPERATION
			A	b	QA	QB		
0	X	X	0	0	0	0	Q0	PARALLEL LOAD
1	—	0	X	X	0	Q0	Q0	RIGHT SHIFT
1	—	1	X	X	1	Q0	Q0	NO COUNT
1	0	0	X	X	QA	QB	Q0	
1	0	1	X	X	QA	QB	Q0	
1	1	0	X	X	QA	QB	Q0	
1	1	1	X	X	QA	QB	Q0	

O : LOW LEVEL 1 : HIGH LEVEL X : DON'T CARE  
a-h : LEVEL OF INPUTS A-H  
QAo-QHo : LEVEL OF QA-QH BEFORE THE INDICATED INPUT CONDITIONS  
WERE ESTABLISHED

SN74HC175ANS (TI) FLAT PACKAGE  
TC74VHC175FS (TOSHIBA) FLAT PACKAGE

C-MOS QUAD D-TYPE FLIP-FLOPS WITH RESET  
- TOP VIEW -



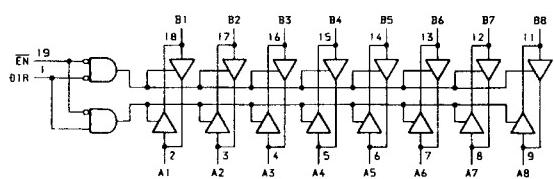
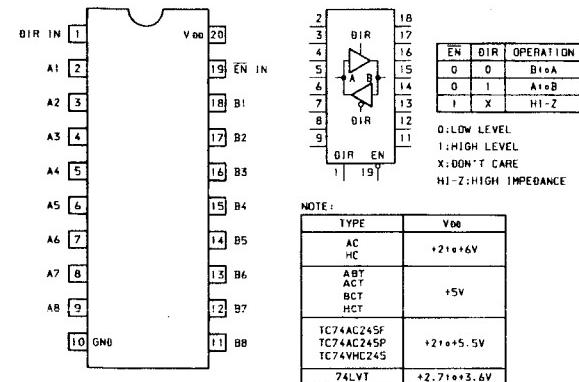
RD	CK	D	Q	$\bar{Q}$
0	X	X	0	1
1	—	1	1	0
1	—	0	0	1
1	0	0	Q <sub>0</sub>	$\bar{Q}_0$
1	0	1	Q <sub>1</sub>	$\bar{Q}_1$
1	1	0	Q <sub>2</sub>	$\bar{Q}_2$
1	1	1	Q <sub>3</sub>	$\bar{Q}_3$

0 : LOW LEVEL  
1 : HIGH LEVEL  
X : DON'T CARE  
Q<sub>0</sub> : NO CHANGE  
 $\bar{Q}_0$  : NO CHANGE

NOTE:
TYPE V <sub>DD</sub>
AC TYPE +2 to +5.5V
74ACT175 TYPE +4.5V to 5.5 V
OTHER TYPES +2 to +6 V

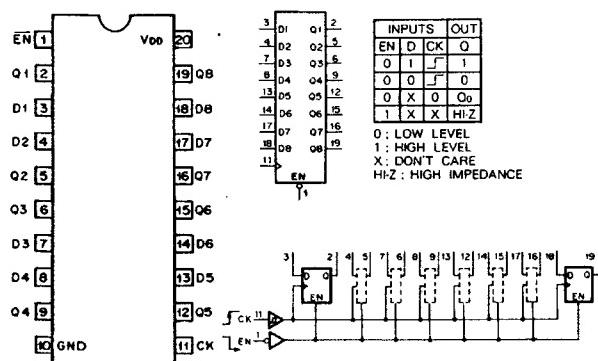
SN74HC245ANS (TI) FLAT PACKAGE  
 SN74HCT245ANS (TI) FLAT PACKAGE  
 SN74LVT245NS (TI) FLAT PACKAGE  
 TC74VHC245F (TOSHIBA) FLAT PACKAGE  
 TC74VHC245FS (EL) (TOSHIBA) FLAT PACKAGE (SMALL)

C-MOS BILATERAL BUS TRANSCEIVERS WITH 3-STATE OUTPUTS  
 -TOP VIEW-



SN74HC374ANS (TI) FLAT PACKAGE  
 TC74VHC374FS (TOSHIBA) FLAT PACKAGE

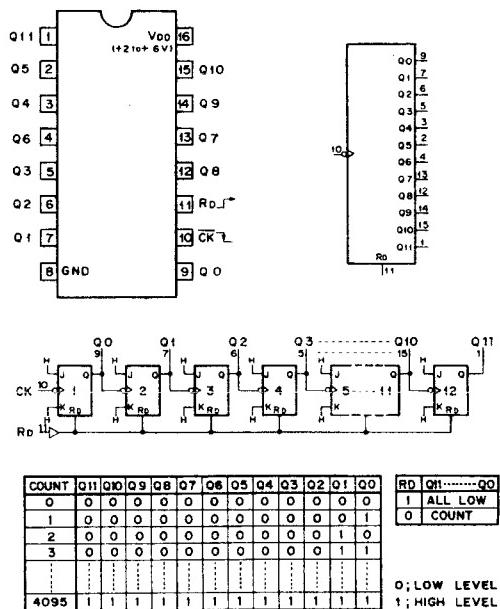
C-MOS 3-STATE OCTAL D-TYPE FLIP-FLOP  
 -TOP VIEW-



NOTE:	TYPE	Vdd
	74AC/74HC	+2 to +6V
	74ACT/74BCT/74FC	+5V
	74HCT	+2 to +5.5V

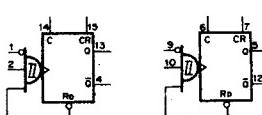
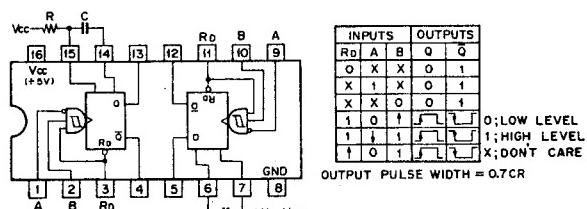
SN74HC4040ANS (TI) FLAT PACKAGE

C-MOS 12-STAGE RIPPLE CARRY BINARY COUNTER/DRIVER  
 -TOP VIEW-



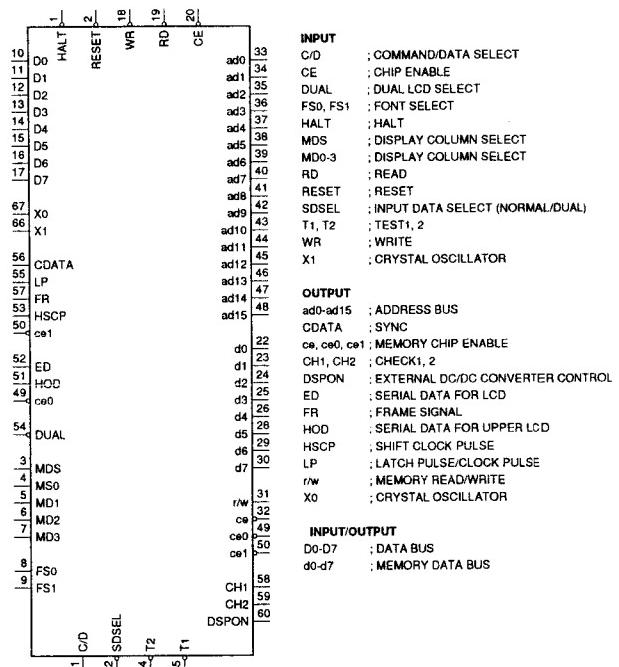
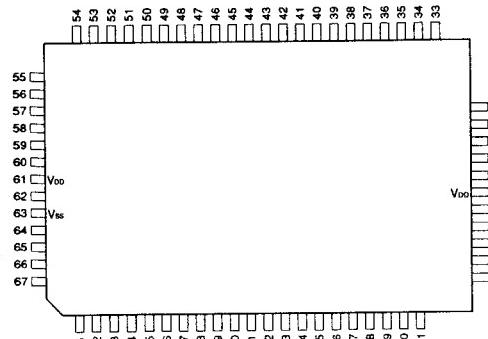
SN74LS221NS (TI) FLAT PACKAGE

TTL MONOSTABLE MULTIVIBRATOR WITH SCHMITT TRIGGER INPUT  
 -TOP VIEW-

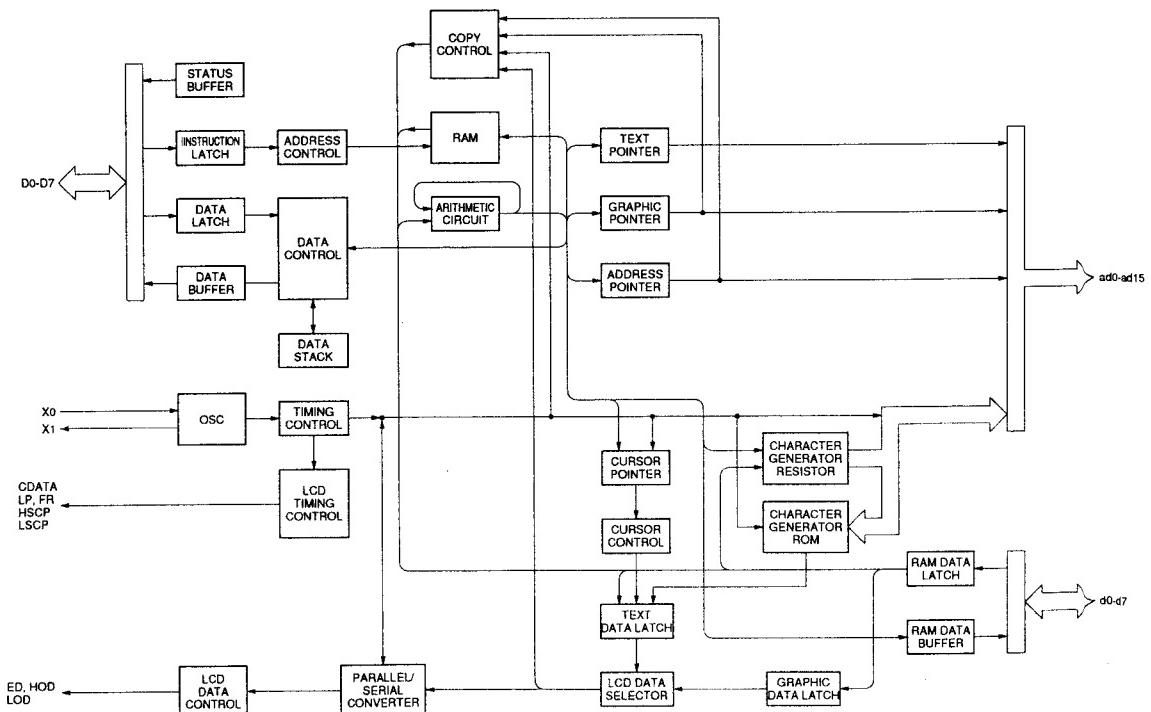


## T6963C (TOSHIBA)

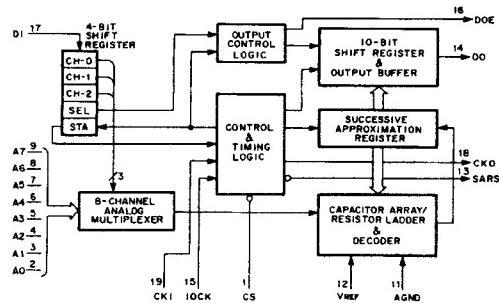
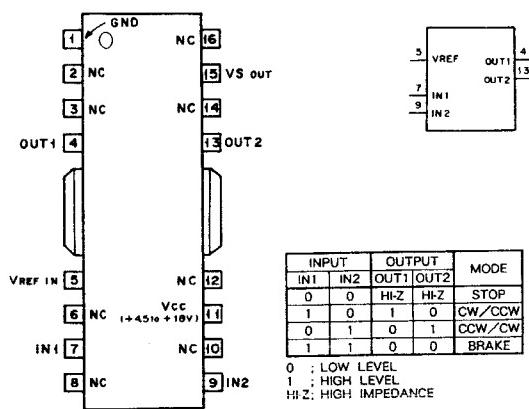
C-MOS DOT MATRIX LCD CONTROLLER  
TOP VIEW -



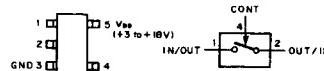
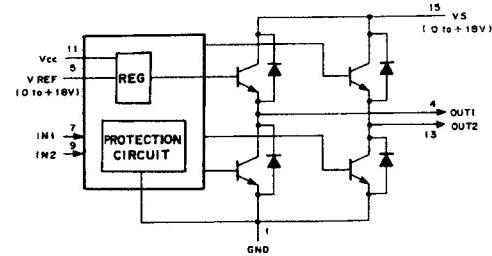
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	HALT	18	I	WR	35	O	ad2	52	O	ED
2	I	RESET	19	I	RD	36	O	ad3	53	O	HSCP
3	I	MDS	20	I	CE	37	O	ad4	54	I	DUAL
4	I	MDO	21	I	C/D	38	O	ad5	55	O	LP
5	I	M01	22	I/O	do	39	O	ad6	56	O	CDATA
6	I	M02	23	I/O	d1	40	O	ad7	57	O	FR
7	I	M03	24	I/O	d2	41	O	ad8	58	O	CH1
8	I	FS0	25	I/O	d3	42	O	ad9	59	O	CH2
9	I	FS1	26	I/O	d4	43	O	ad10	60	O	DSPON
10	I/O	D0	27	-	V <sub>DD</sub>	44	O	ad11	61	-	V <sub>DD</sub>
11	I/O	D1	28	I/O	d5	45	O	ad12	62	I	SDSEL
12	I/O	D2	29	I/O	d6	46	O	ad13	63	-	V <sub>SS</sub>
13	I/O	D3	30	I/O	d7	47	O	ad14	64	I	T <sub>2</sub>
14	I/O	D4	31	O	r/w	48	O	ad15	65	I	T <sub>1</sub>
15	I/O	D5	32	O	ce	49	O	ce0	66	I	X1
16	I/O	D6	33	O	ad0	50	O	ce1	67	O	X0
17	I/O	D7	34	O	ad1	51	O	HOD	-	-	-



## TA7291F (TOSHIBA) FLAT PACKAGE

DC MOTOR FULLBRIDGE DRIVER  
- TOP VIEW -

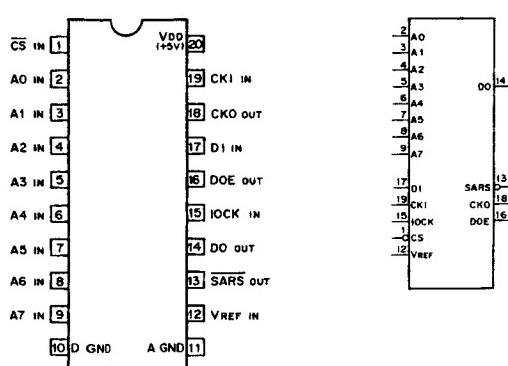
## TC4S66F (TOSHIBA) CHIP PACKAGE

C-MOS BILATERAL ANALOG SWITCH  
- TOP VIEW -

CONT	SWITCH
0	OFF
1	ON

0 : LOW LEVEL, 1 : HIGH LEVEL

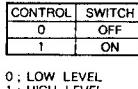
## TC35080P (TOSHIBA)

C-MOS 10-BIT SERIAL I/O A/D CONVERTER  
- TOP VIEW -

**INPUT**  
 A0 – A7 : ANALOG  
 CKI : CLOCK  
 CS : CHIP SELECT  
 DI : DATA  
 IOCK : I/O CLOCK  
 VREF : REFERENCE VOLTAGE

**OUTPUT**  
 CKO : CLOCK  
 DO : DATA  
 DOE : DATA OUTPUT ENABLE  
 SARS : SUCCESSIVE APPROXIMATION REGISTER STATUS

## TC4W66FU (TOSHIBA) CHIP PACKAGE

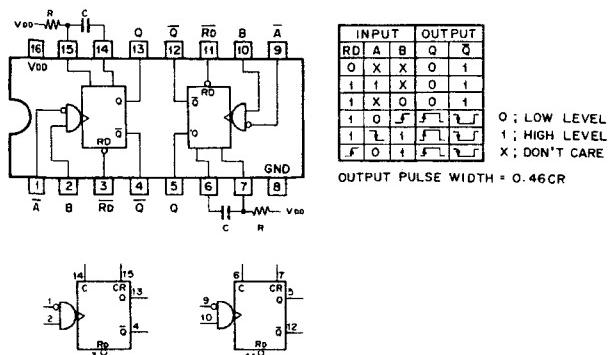
C-MOS DUAL BILATERAL SWITCH  
- TOP VIEW -

CONTROL	SWITCH
0	OFF
1	ON

0 : LOW LEVEL, 1 : HIGH LEVEL

TC74HC123AF (TOSHIBA) FLAT PACKAGE  
 TC74VHC123AF (TOSHIBA) FLAT PACKAGE  
 TC74VHC123AFS (TOSHIBA) FLAT PACKAGE

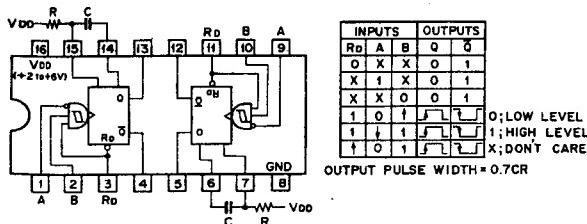
C-MOS DUAL RETRIGGERABLE MONOSTABLE MULTIVIBRATORS  
 - TOP VIEW -



NOTE :	
TYPE	V <sub>DD</sub>
TC74HC123AF	+5V
OTHER TYPES	+2 to +6V

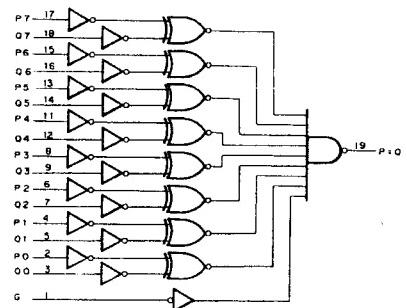
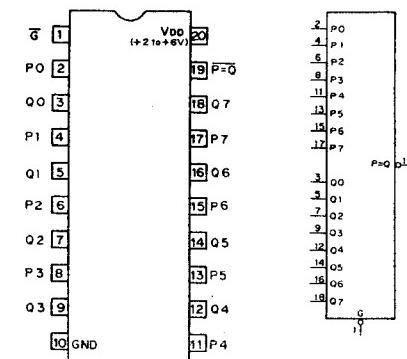
TC74HC221AF (TOSHIBA) FLAT PACKAGE  
 TC74VHC221AF (TOSHIBA) FLAT PACKAGE

C-MOS MONOSTABLE MULTIVIBRATOR WITH SCHMITT TRIGGER INPUT  
 - TOP VIEW -



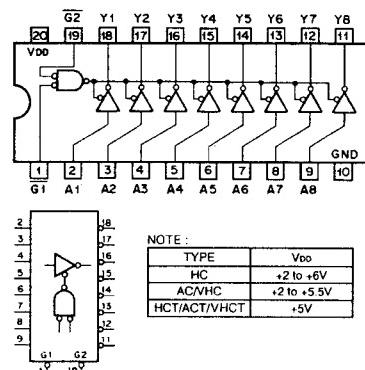
## TC74HC688AF (TOSHIBA) FLAT PACKAGE

C-MOS 8-BIT EQUALITY DETECTOR  
 - TOP VIEW -



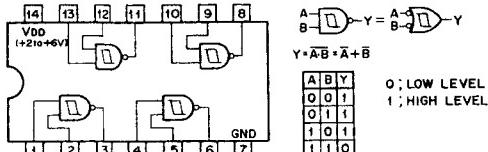
## TC74HCT540AF (TOSHIBA) FLAT PACKAGE

C-MOS 3-STATE OCTAL INVERTING BUFFERS/DRIVERS  
 - TOP VIEW -



## TC74VHC132FS (TOSHIBA) FLAT PACKAGE

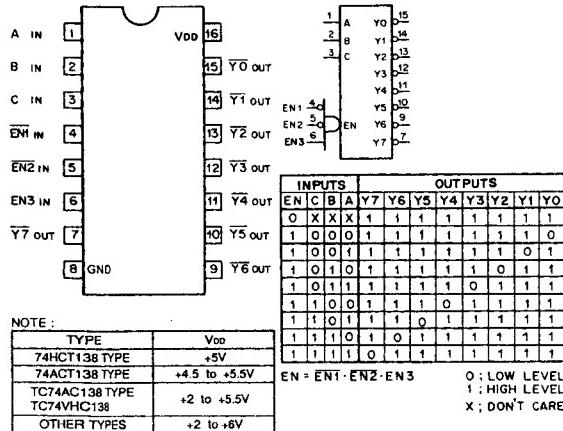
C-MOS 2-INPUT NAND SCHMITT TRIGGER  
- TOP VIEW -



NOTE :	TYPE	V <sub>DD</sub>
	HC	+2 to +6V
	VHC	+2 to +5.5V

## TC74VHC157FS (TOSHIBA) FLAT PACKAGE (SMALL)

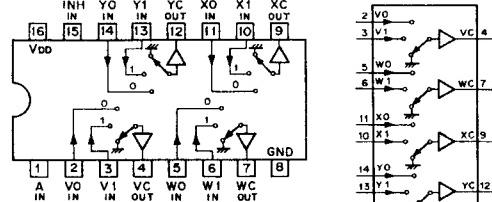
C-MOS QUAD 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER  
- TOP VIEW -



NOTE :	TYPE	V <sub>DD</sub>
	74HCT138 TYPE	+5V
	74ACT138 TYPE	+4.5 to +5.5V
	TC74AC138 TYPE	+2 to +5.5V
	TC74VHC138	+2 to +6V
	OTHER TYPES	+2 to +6V

## TC74VHC157FS (TOSHIBA) FLAT PACKAGE (SMALL)

C-MOS QUAD 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER  
- TOP VIEW -



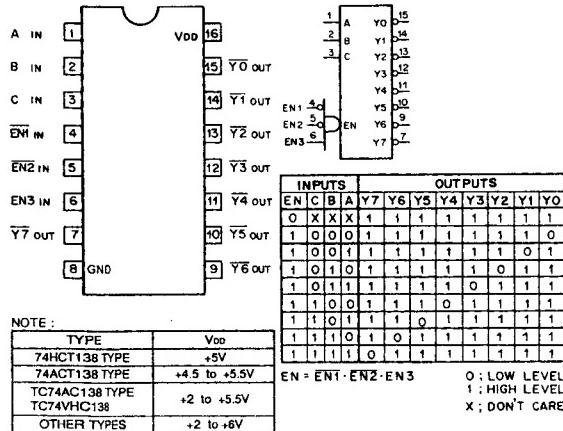
NOTE :	TYPE	V <sub>DD</sub>
	74ACT/74FCT	+5V
	TC74AC157P	+2 to +5.5V
	TC74AC157	+2 to +5.5V
	TC40H	+2 to +8V
	OTHER TYPES	+2 to +6V

CONT. IN	IN	ON CHANNEL
0	0	0
0	1	1
1	X	GND

0 : LOW LEVEL  
1 : HIGH LEVEL  
X : DON'T CARE

## TC74VHC138FS (EL) (TOSHIBA) FLAT PACKAGE (SMALL)

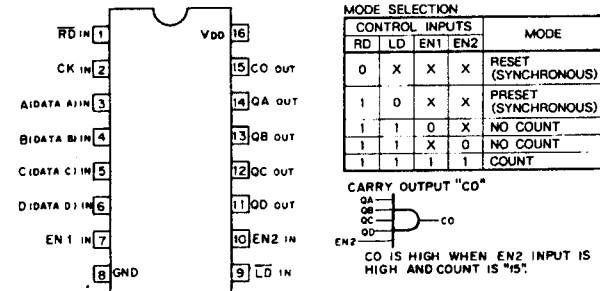
C-MOS 3-TO-8 LINE DECODER/DEMULTIPLEXER  
- TOP VIEW -



NOTE :	TYPE	V <sub>DD</sub>
	74HCT138 TYPE	+5V
	74ACT138 TYPE	+4.5 to +5.5V
	TC74AC138 TYPE	+2 to +5.5V
	TC74VHC138	+2 to +6V
	OTHER TYPES	+2 to +6V

## TC74VHC163F (TOSHIBA) FLAT PACKAGE

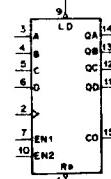
C-MOS PRESETTABLE SYNCHRONOUS 4-BIT BINARY COUNTER  
- TOP VIEW -



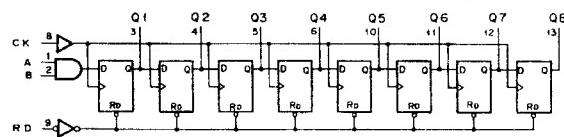
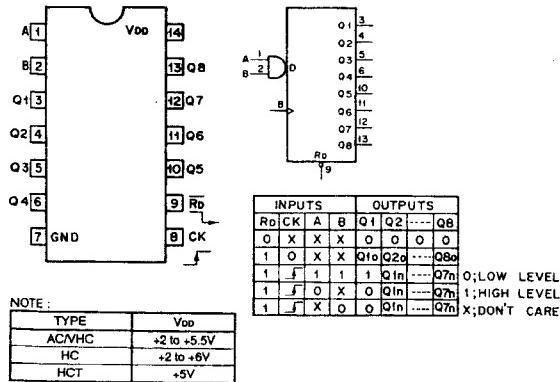
NOTE :	TYPE	V <sub>DD</sub>
	HC	+2 to +6V
	AC/VHC	+2 to +5.5V
	HCT/ACT/FCT	+5V

## COUNT SEQUENCE

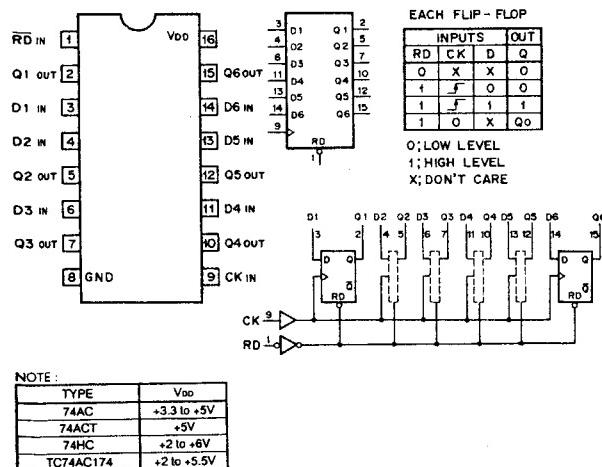
COUNT	OUTPUTS
0	Q0 Q1 Q2 Q3
1	0 0 0 1
2	0 0 1 0
3	0 0 1 1
4	0 1 0 0
5	0 1 0 1
6	0 1 1 0
7	0 1 1 1
8	1 0 0 0
9	1 0 0 1
10	1 0 1 0
11	1 0 1 1
12	1 1 0 0
13	1 1 0 1
14	1 1 1 0
15	1 1 1 1



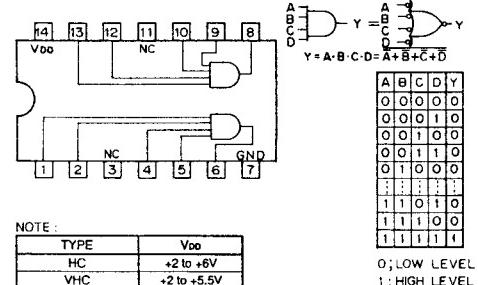
## TC74VHC164F (TOSHIBA) FLAT PACKAGE

C-MOS 8-BIT SERIAL-IN/PARALLEL-OUT SHIFT REGISTER  
- TOP VIEW -

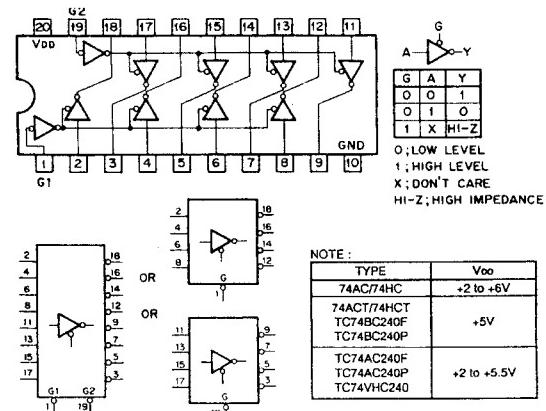
## TC74VHC174F (TOSHIBA) FLAT PACKAGE

C-MOS D-TYPE FLIP-FLOP WITH RESET  
- TOP VIEW -

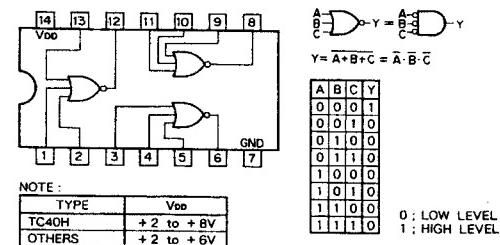
## TC74VHC21F (TOSHIBA) FLAT PACKAGE

C-MOS DUA4-INPUT POSITIVE AND GATE  
- TOP VIEW -0; LOW LEVEL  
1; HIGH LEVEL

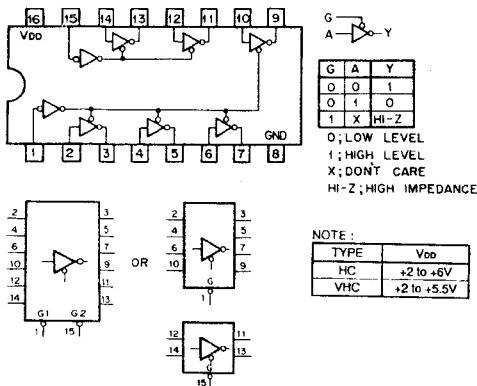
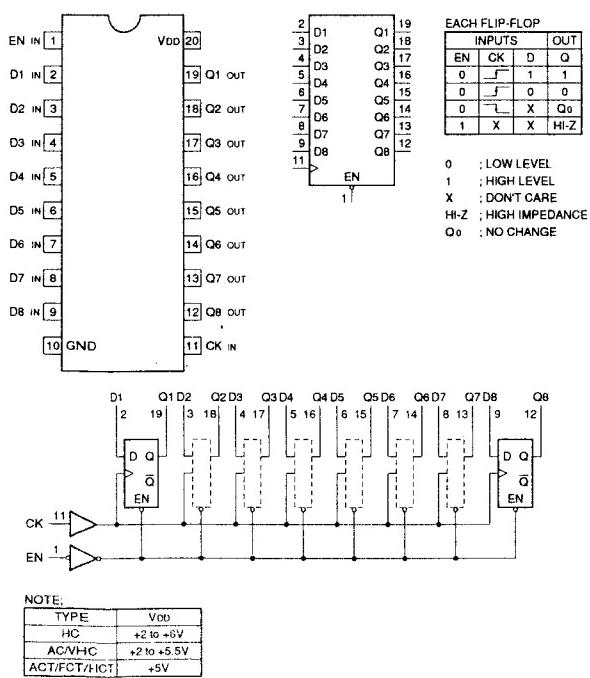
## TC74VHC240F (TOSHIBA) FLAT PACKAGE

C-MOS 3-STATE INVERTER/LINE DRIVER  
- TOP VIEW -0; LOW LEVEL  
1; HIGH LEVEL  
X; DON'T CARE  
HI-Z; HIGH IMPEDANCE

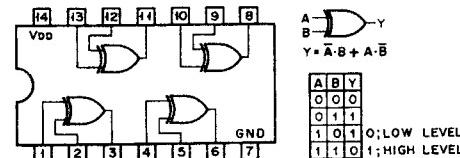
## TC74VHC27FS (TOSHIBA) FLAT PACKAGE

C-MOS 3-LINE POSITIVE-NOR GATE  
- TOP VIEW -0; LOW LEVEL  
1; HIGH LEVEL

## TC74VHC368FS (TOSHIBA) FLAT PACKAGE

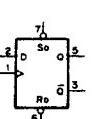
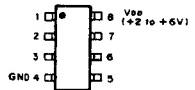
C-MOS BUS INVERTER WITH 3-STATE OUTPUTS  
- TOP VIEW -TC74VHC574F (TOSHIBA) FLAT PACKAGE  
TC74VHC574FS (EL) (TOSHIBA) FLAT PACKAGE (SMALL)C-MOS 3-STATE D-TYPE EDGE-TRIGGERED FLIP-FLOP  
- TOP VIEW -

## TC74VHC86F (TOSHIBA) FLAT PACKAGE

C-MOS QUAD EXCLUSIVE OR GATES  
- TOP VIEW -

## TC7W74FU (TOSHIBA) CHIP PACKAGE

C-MOS D-TYPE FLIP-FLOPS WITH DIRECT SET/RESET  
- TOP VIEW -

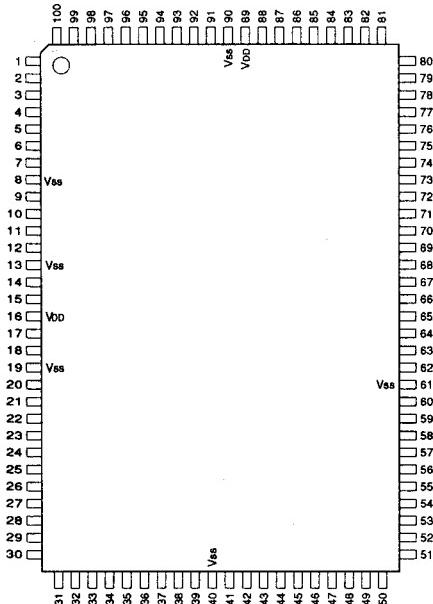


INPUTS	OUTPUTS			
SOP	DCK	D	Qn + 1	Qn + 1
0	1	X X	1	0
1	0	X X	0	1
0	0	X X	1	1
1	1	X 1	1	0
1	1	X 0	0	1
1	1	X L	Qn	Qn

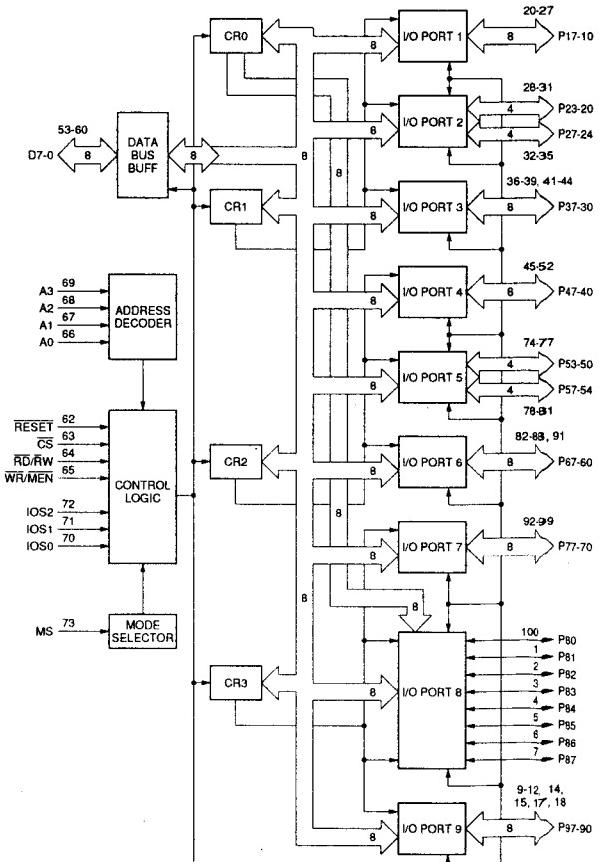
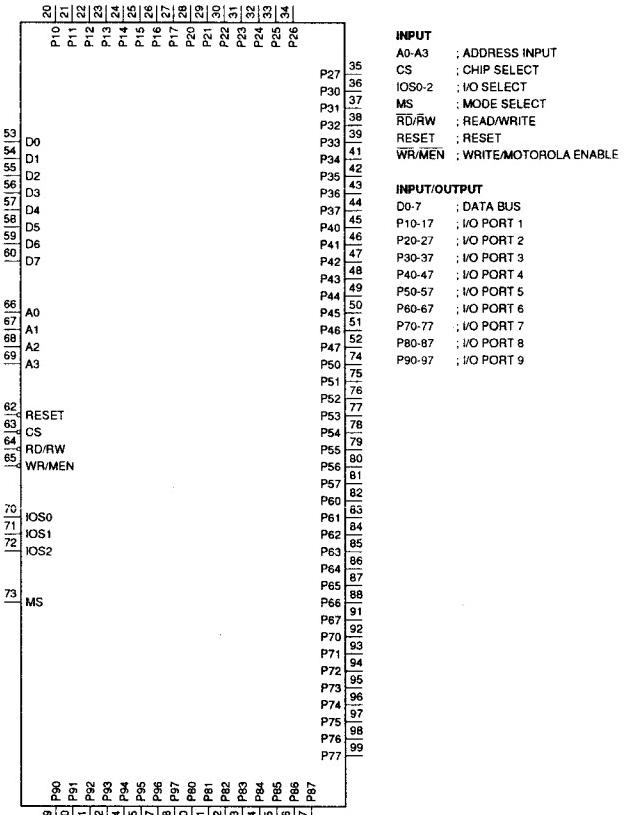
0 : LOW LEVEL  
1 : HIGH LEVEL  
X : DON'T CARE

## TE7751 (TKE)

C-MOS SUPER I/O EXPANDER (8 BIT × 9 CH)  
- TOP VIEW -

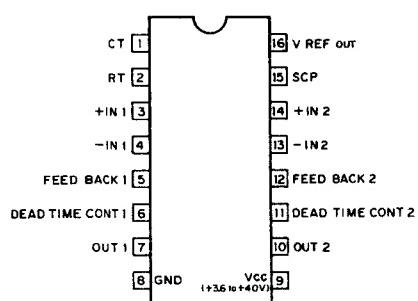


PIN No.	I/O	SIGNAL									
1	I/O	P81	26	I/O	P16	51	I/O	P46	76	I/O	P52
2	I/O	P82	27	I/O	P17	52	I/O	P47	77	I/O	P53
3	I/O	P83	28	I/O	P20	53	I/O	D0	78	I/O	P54
4	I/O	P84	29	I/O	P21	54	I/O	D1	79	I/O	P55
5	I/O	P85	30	I/O	P22	55	I/O	D2	80	I/O	P56
6	I/O	P86	31	I/O	P23	56	I/O	D3	81	I/O	P57
7	I/O	P87	32	I/O	P24	57	I/O	D4	82	I/O	P60
8	-	Vss	33	I/O	P25	58	I/O	D5	83	I/O	P61
9	I/O	P90	34	I/O	P26	59	I/O	D6	84	I/O	P62
10	I/O	P91	35	I/O	P27	60	I/O	D7	85	I/O	P63
11	I/O	P92	36	I/O	P30	61	-	Vss	86	I/O	P64
12	I/O	P93	37	I/O	P31	62	I	RESET	87	I/O	P65
13	-	Vss	38	I/O	P32	63	I	CS	88	I/O	P66
14	I/O	P94	39	I/O	P33	64	I	RD/RW	89	-	Vdd
15	I/O	P95	40	-	Vss	65	I	WR/MEN	90	-	Vss
16	-	Vdd	41	I/O	P34	66	I	A0	91	I/O	P67
17	I/O	P96	42	I/O	P35	67	I	A1	92	I/O	P70
18	I/O	P97	43	I/O	P36	68	I	A2	93	I/O	P71
19	-	Vss	44	I/O	P37	69	I	A3	94	I/O	P72
20	I/O	P10	45	I/O	P40	70	I	IOS0	95	I/O	P73
21	I/O	P11	46	I/O	P41	71	I	IOS1	96	I/O	P74
22	I/O	P12	47	I/O	P42	72	I	IOS2	97	I/O	P75
23	I/O	P13	48	I/O	P43	73	I	MS	98	I/O	P76
24	I/O	P14	49	I/O	P44	74	I/O	P50	99	I/O	P77
25	I/O	P15	50	I/O	P45	75	I/O	P51	100	I/O	P80



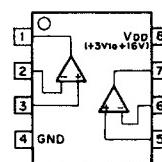
**TL1451ACNS (TI) FLAT PACKAGE  
TL1451ACPW (TI) FLAT PACKAGE (SMALL)**

DUAL PWM POWER CONTROLLER  
-TOP VIEW-

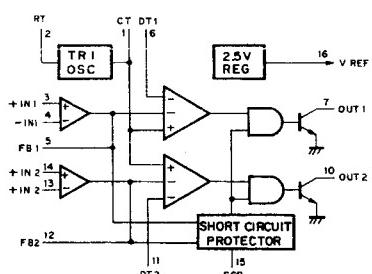


**TLC272CPW (TI)**

OPERATIONAL AMPLIFIER  
- TOP VIEW -

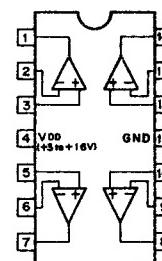


DEAD TIME CONT 1



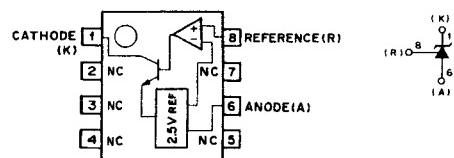
**TLC274CPW (TI) FLAT PACKAGE**

C-MOS OPERATIONAL AMPLIFIER  
- TOP VIEW -



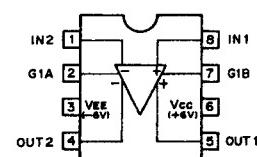
**TL431CML (MOTOROLA) FLAT PACKAGE**

PROGRAMMABLE SHUNT REGULATOR DIODE  
- TOP VIEW -



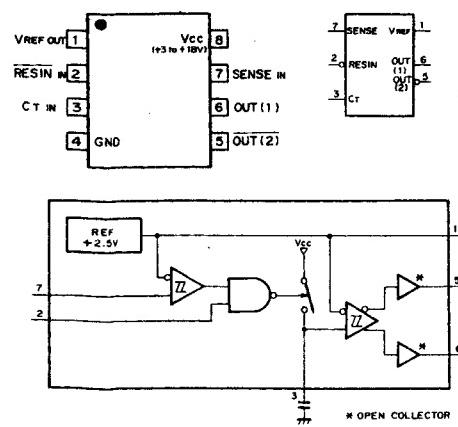
**UPC1663G (NEC) FLAT PACKAGE**

WIDEBAND VIDEO AMPLIFIER  
- TOP VIEW -



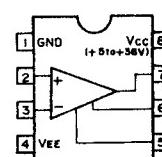
**TL7705ACPS (TI) FLAT PACKAGE**

POWER VOLTAGE SUPERVISOR  
- TOP VIEW -



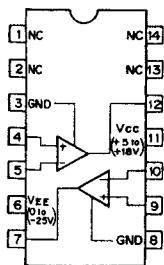
**UPC311G2 (NEC) FLAT PACKAGE**

VOLTAGE COMPARATOR  
- TOP VIEW -



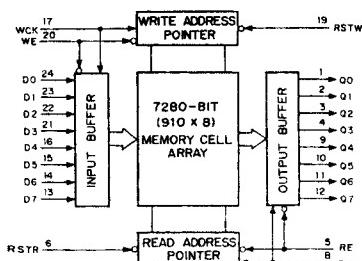
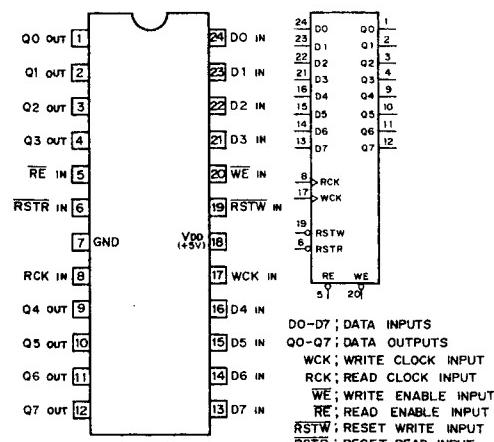
## UPC319G2 (NEC) FLAT PACKAGE

DUAL VOLTAGE COMPARATOR  
- TOP VIEW -



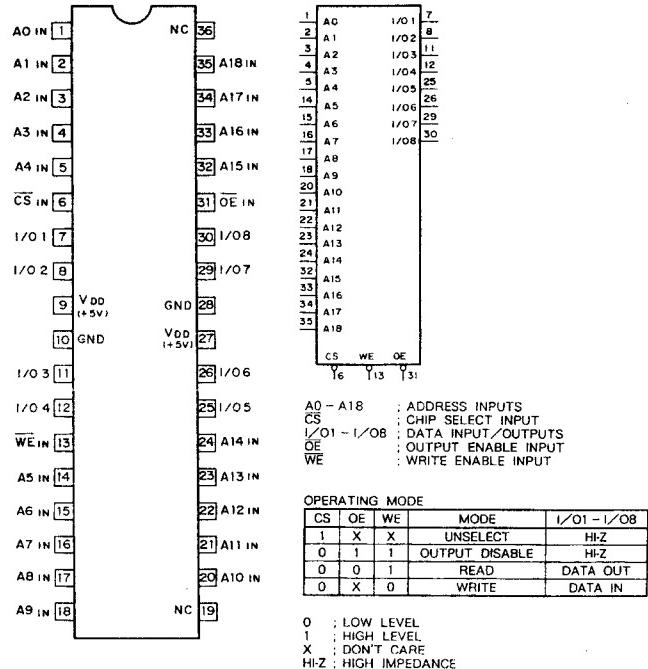
## UPD42101G-3 (NEC) FLAT PACKAGE

C-MOS 7K (910 × 8)-BIT FIFO MEMORY  
- TOP VIEW -



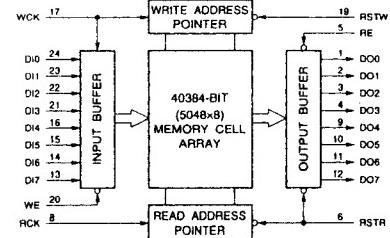
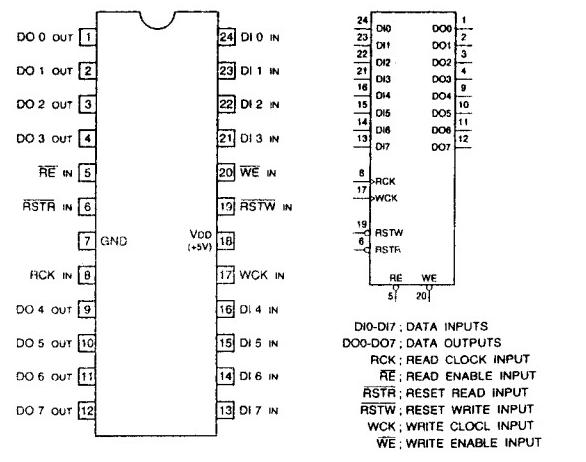
## UPD434008LE-20 (NEC) CHIP CARRIER

C-MOS 4M (524288 WORD × 8)-BIT STATIC RAM  
- TOP VIEW -



## UPD485505G-35 (NEC) FLAT PACKAGE

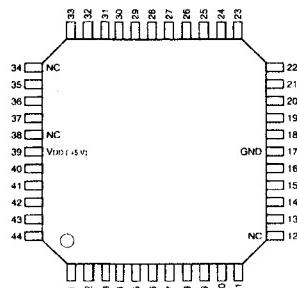
C-MOS 40K (5,048 × 8)-BIT FIFO MEMORY  
- TOP VIEW -



## UPD75004GB-3B4 (NEC)

C-MOS 4-BIT SINGLE CHIP

- TOP VIEW -



(VDD = +5 V)								
PIN No	I/O	SIGNAL	PIN No	I/O	SIGNAL	PIN No	I/O	SIGNAL
1	I/O	P72/KR6	12	—	NC	23	I/O	P33
2	I/O	P71/KR5	13	I/O	P43	24	I/O	P32
3	I/O	P70/KR4	14	I/O	P42	25	I/O	P31
4	I/O	P63/KR3	15	I/O	P41	26	I/O	P30
5	I/O	P62/KR2	16	I/O	P40	27	I/O	P81
6	I/O	P61/KR1	17	—	GND	28	I/O	P80
7	I/O	P60/KR0	18	I	XT1	29	I/O	P03/SI/SB1
8	I/O	P53	19	—	XT2	30	I/O	P02/SO/SBO
9	I/O	P52	20	I	RESET	31	I/O	P01/SCK
10	I/O	P51	21	I	X1	32	I	P00/INT4
11	I/O	P50	22	I	X2	33	I	P13/TIO
						34	—	NC
						35	—	NC
						36	—	NC
						37	—	NC
						38	—	NC
						39	VDD (+5 V)	NC
						40	—	NC
						41	—	NC
						42	—	NC
						43	—	NC
						44	—	NC

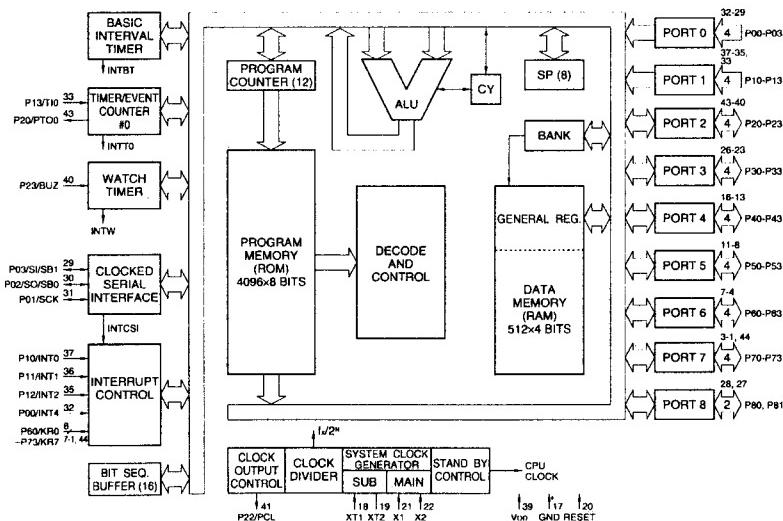
INPUT	
INT0	INTERRUPT 0, 1, 4
INT1	INTERRUPT 1, 2
INT2	TEST 2
KR0-KR7	KEY RETURN
P10-P13	PORT 1
RESET	SYSTEM RESET
SI	SERIAL DATA
TIO	TIMER INPUT 0
X1, X2	MAIN SYSTEM XTAL
XT1, XT2	SUB SYSTEM XTAL

OUTPUT	
BUZZ	BUZZER CLOCK
PCL	PROGRAMMABLE CLOCK
PTO0	PROGRAMMABLE TIMER OUTPUT 0
SO	SERIAL DATA

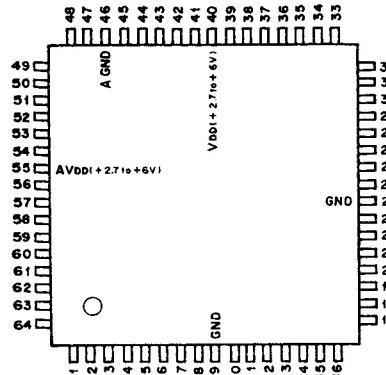
  

INPUT/OUTPUT	
P00-P03	PORT 0
P20-P23	PORT 2
P30-P33	PORT 3
P40-P43	PORT 4
P50-P53	PORT 5
P60-P63	PORT 6
P70-P73	PORT 7
P80-P81	PORT 8
SCI	SERIAL CLOCK
SB0, SB1	SERIAL BUS 0, 1



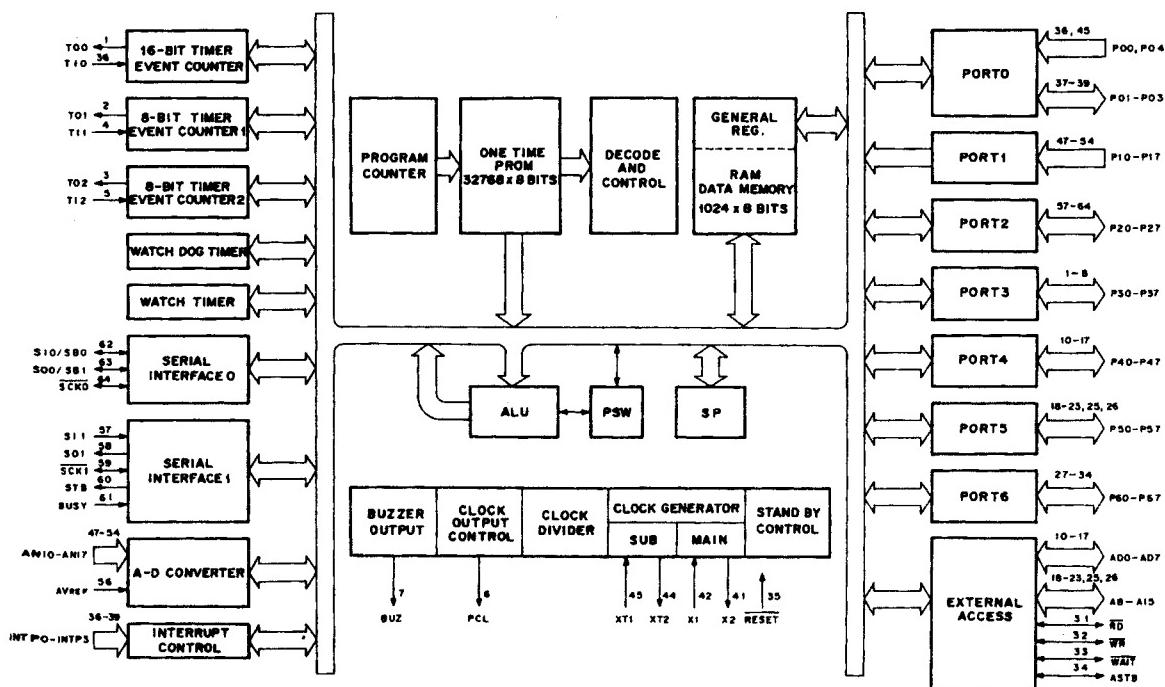
## UPD78P014GC-AB8 (NEC)

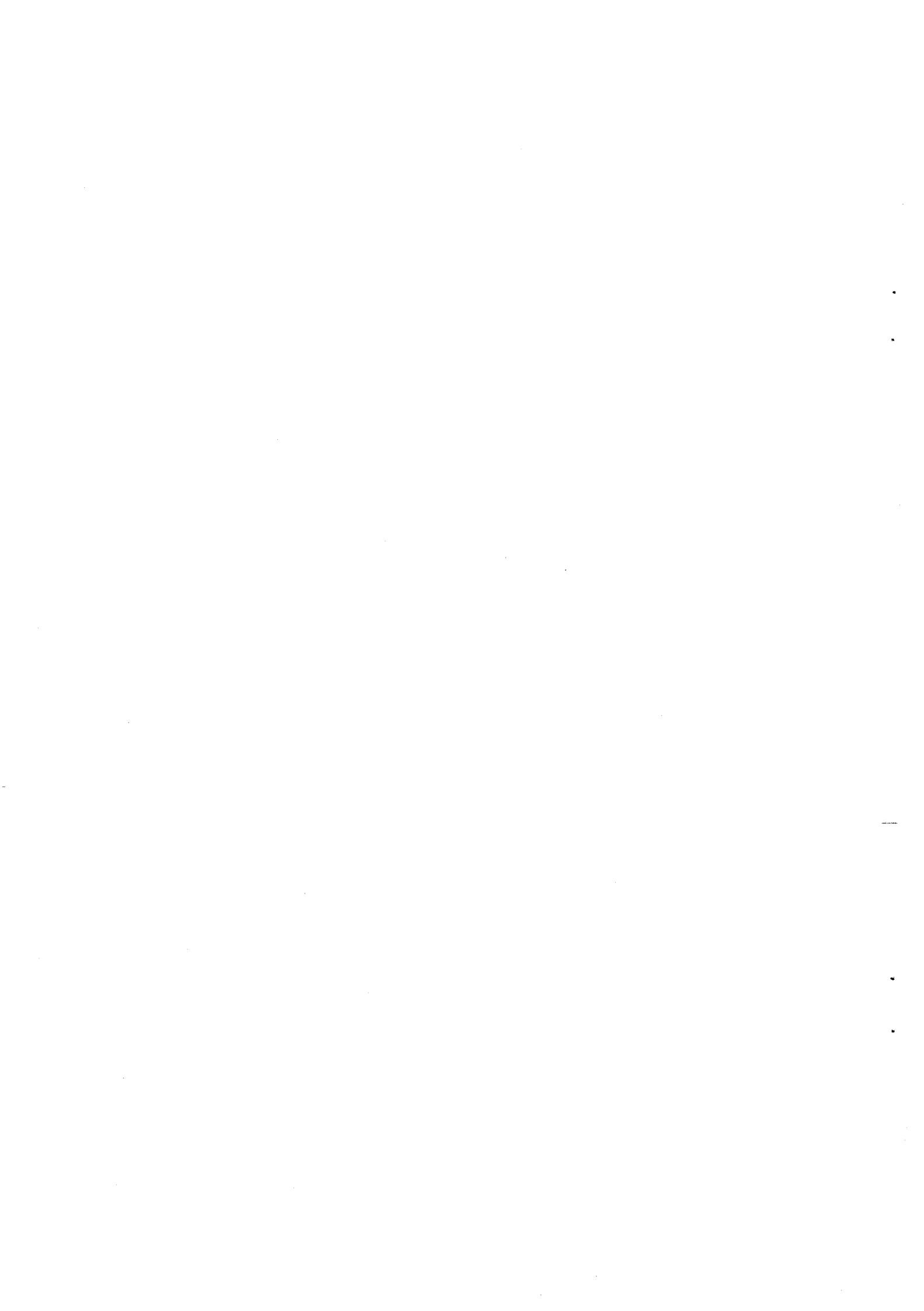
C-MOS 8-BIT SINGLE CHIP MICROCOMPUTER WITH ONE TIME PROM  
TOP VIEW ~



PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I/O	P30/T00	17	I/O	P47/AD7	33	I/O	P66/WAIT	49	I	P12/AN12
2	I/O	P31/T01	18	I/O	P50/AB	34	I/O	P67/ASTB	50	I	P13/AN13
3	I/O	P32/T02	19	I/O	P51/A9	35	I	RESET	51	I	P14/AN14
4	I/O	P33/T11	20	I/O	P52/A10	36	I	P00/INTP0/T10	52	I	P15/AN15
5	I/O	P34/T12	21	I/O	P53/A11	37	I/O	P01/INTP1	53	I	P16/AN16
6	I/O	P35/PCL	22	I/O	P54/A12	38	I/O	P02/INTP2	54	I	P17/AN17
7	I/O	P36/BUZ	23	I/O	P55/A13	39	I/O	P03/INTP3	55	-	AVDD
8	I/O	P37	24	I/O	GND	40	-	Vdd	56	-	AVref
9	-	GND	25	I/O	P66/A14	41	O	X2	57	I/O	P20/S11
10	I/O	P40/AD0	26	I/O	P57/A15	42	I	X1	58	I/O	P21/S01
11	I/O	P41/AD1	27	I/O	P60	43	-	Vpp	59	I/O	P22/SCK1
12	I/O	P42/AD2	28	I/O	P61	44	-	XT2	60	I/O	P23/STB
13	I/O	P43/AD3	29	I/O	P62	45	I	P04/XT1	61	I/O	P24/BUSY
14	I/O	P44/AD4	30	I/O	P63	46	-	A GND	62	I/O	P25/S10/S80
15	I/O	P45/AD5	31	I/O	P64/RD	47	I	P10/AN0	63	I/O	P26/S00/S81
16	I/O	P46/AD6	32	I/O	P65/WR	48	I	P11/AN1	64	I/O	P27/SCK0

INPUT	P30/T00	1	ANIO - AN17	; ANALOG 0 - 7
	P31/T01	2	AVREF	; ANALOG REFERENCE VOLTAGE
	P32/T02	3	BUSY	; INTERRUPT
	P33/T11	4	INTP0 - INTP3	FROM PERIPHERALS 0 - 3
	P34/T12	5	P00, P04	PORT 0
	P35/PCL	6	P10 - P17	PORT 1
	P36/BUZ	7	RESET	RESET
	P37	8	SIO, S11	SERIAL 0, 1
		9	T10 - T12	TIMER 0 - 2
		10	X1, X2	WAIT
		11		CRYSTAL 1, 2 (MAIN SYSTEM CLOCK)
		12		CRYSTAL 1, 2 (SUB SYSTEM CLOCK)
OUTPUT		13		
	A8 - A15	14		ADDRESS BUS 8 - 15
	ASTB	15		ADDRESS STROBE
	BUZ	16		BUZZER CLOCK
	PCL	17		PROGRAMMABLE CLOCK
	RD	18		READ STROBE
	S00, S01	19		SERIAL 0, 1
	STB	20		STROBE
	TOO - TO2	21		TIMER 0 - 2
	WR	22		WRITE STROBE
INPUT/OUTPUT		23		
	AD0 - AD7	24		ADDRESS/DATA BUS 0 - 7
	P01 - P03	25		PORT 0
	P20 - P27	26		PORT 2
	P30 - P37	27		PORT 3
	P40 - P47	28		PORT 4
	P50 - P57	29		PORT 5
	P60 - P67	30		PORT 6
	S00, S01	31		SERIAL BUS 0, 1
	SCK0, SCK1	32		SERIAL CLOCK 0, 1





## Section 5

### Spare Parts

#### 5-1. 補修部品注意事項

##### 1. 安全重要部品

△印のついた部品は安全性を維持するために重要な部品です。したがって、交換する時は必ず指定の部品を使ってください。

##### 2. 部品の共通化

ソニーから供給する補修用部品は、セットに使われているものと異なることがあります。  
これは部品の共通化、改良等によるものです。  
部品表には現時点での共通化された補修用部品が記載されています。

##### 3. 部品の在庫

部品表のSP (Supply code) 欄に“o”で示される部品は在庫していないことがあります、納期が長くなることがあります。

##### 4. 単位の表記

下記の単位については、表記を変更または省略しています。

単位	表記
静電容量	μF
インダクタンス	μH
抵抗値	Ω
温度	℃
	×××-DEG-C

##### 5. 仕向区分の表記

部品表中、下記表示のある部品は、次に示すモデルで使用している部品です。

- |          |                     |
|----------|---------------------|
| for J    | : 日本向けモデルに使用        |
| for UC   | : USAおよびカナダ向けモデルに使用 |
| for SY   | : 上記以外向けモデルに使用      |
| for NTSC | : DVW-250に使用        |
| for PAL  | : DVW-250Pに使用       |

#### 5-1. Notes on Repair Parts

##### 1. Safety Related Components Warning

Components marked △ are critical to safe operation. Therefore, specified parts should be used in the case of replacement.

##### 2. Standardization of Parts

Some repair parts supplied by Sony differ from those used for the unit. These are because of parts commonality and improvement.

Parts list has the present standardized repair parts.

##### 3. Stock of Parts

Parts marked with “o” at SP (Supply code) column of the spare parts list may be not stocked. Therefore, the delivery date will be delayed.

##### 4. Units Representation

The following represented units are changed or omitted in writing.

Units	Representation
Capacitance	μF
Inductance	μH
Resistance	Abbreviation
Temperature	°C
	XXX-DEG-C

##### 5. Destination Representation

The part indicated “for J/UC/SY” in the spare parts list is used in the unit written below.

- |          |  |
|----------|--|
| for J    | : The part is used in a unit for Japan.                              |
| for UC   | : The part is used in a unit for U.S.A. and Canada.                  |
| for SY   | : The part is used in a unit for regions except the above countries. |
| for NTSC | : The part is used in the NTSC model.                                |
| for PAL  | : The part is used in the PAL model.                                 |

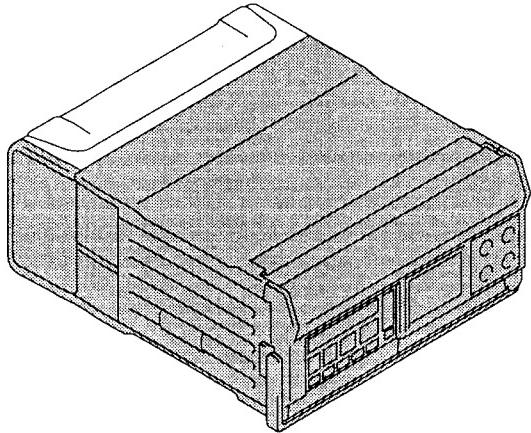
## 5-2. Exploded Views

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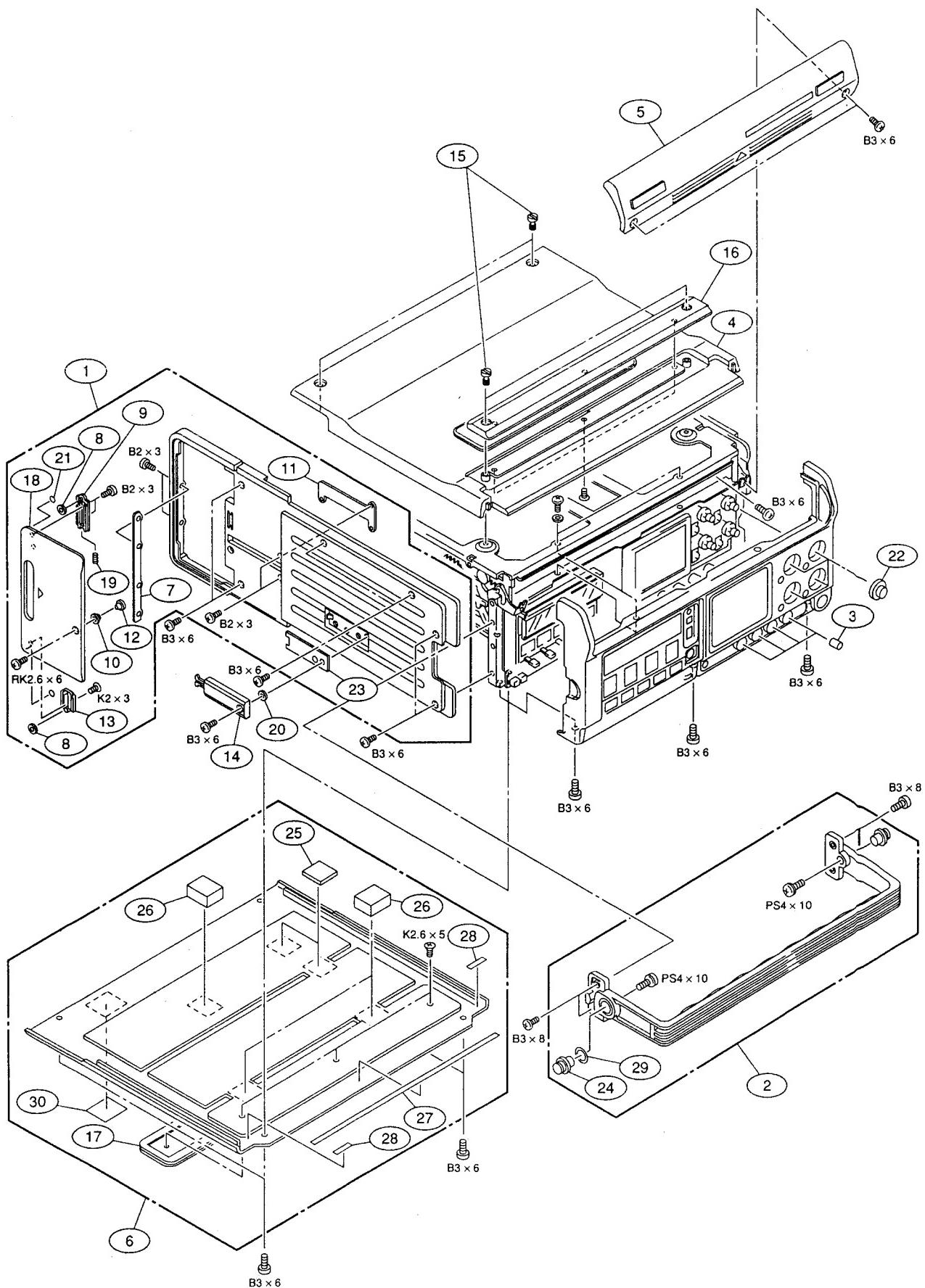
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Pinch roller arm T-side drawing arm CUE link DET-26 board Tape guide (T3)	CUE LINK AND PINCH ARM	5-36

## TOP AND BOTTOM PANELS

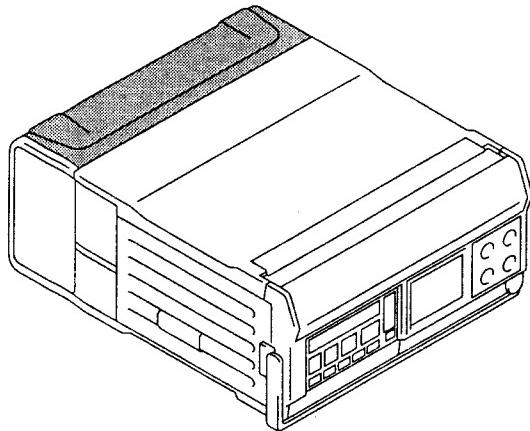


No.	Part No.	SP Description
1	A-8269-457-A	o CABINET (LEFT) ASSY
2	A-8278-239-A	o ASSY, HANDLE
3	X-3664-208-0	s KNOB ASSY, FADE
4	X-3678-394-2	o PLATE SUB ASSY, UPPER
5	X-3678-398-1	o COVER ASSY, FRONT (for J, UC)
	X-3678-413-1	o COVER ASSY, FRONT (for SY)
6	X-3678-463-1	o PLATE SUB ASSY, BOTTOM
7	3-169-331-01	o BRACKET, CABINET (REAR)
8	3-169-346-01	s ROLLER (A)
9	3-169-347-05	o HOLDER (B), ROLLER
10	3-169-348-02	s ROLLER (B)
11	3-169-349-11	o COVER, ROLLER
12	3-169-350-02	s SHAFT, BT ROLLER
13	3-169-351-05	o HOLDER (A), ROLLER
14	3-169-406-21	o COVER, L SUB
15	3-169-407-02	s SCREW, LID
16	3-169-517-01	o CUSHION (UPPER), ER
17	3-169-524-01	o CUSHION (LOWER), ER
18	3-169-530-21	o LID, BT
19	3-644-718-00	s SPRING, COMPRESSION
20	3-669-596-01	s WASHER (2.3), STOPPER
21	3-682-543-00	s RETAINER, FLYWHEEL
22	3-691-399-01	s KNOB, VR
23	3-691-506-01	o PLATE, ORNAMENTAL
24	3-693-977-01	o SHAFT, HANDLE
25	3-694-126-01	o SHEET (S), VENTILATION
26	3-694-127-01	o SHEET (L), VENTILATION
27	3-694-128-01	o CUSHION (L)
28	3-694-129-01	o CUSHION (S)
29	3-728-663-01	s RING (P7), O
30	3-921-816-01	s LABEL, NI-CD RECYCLE

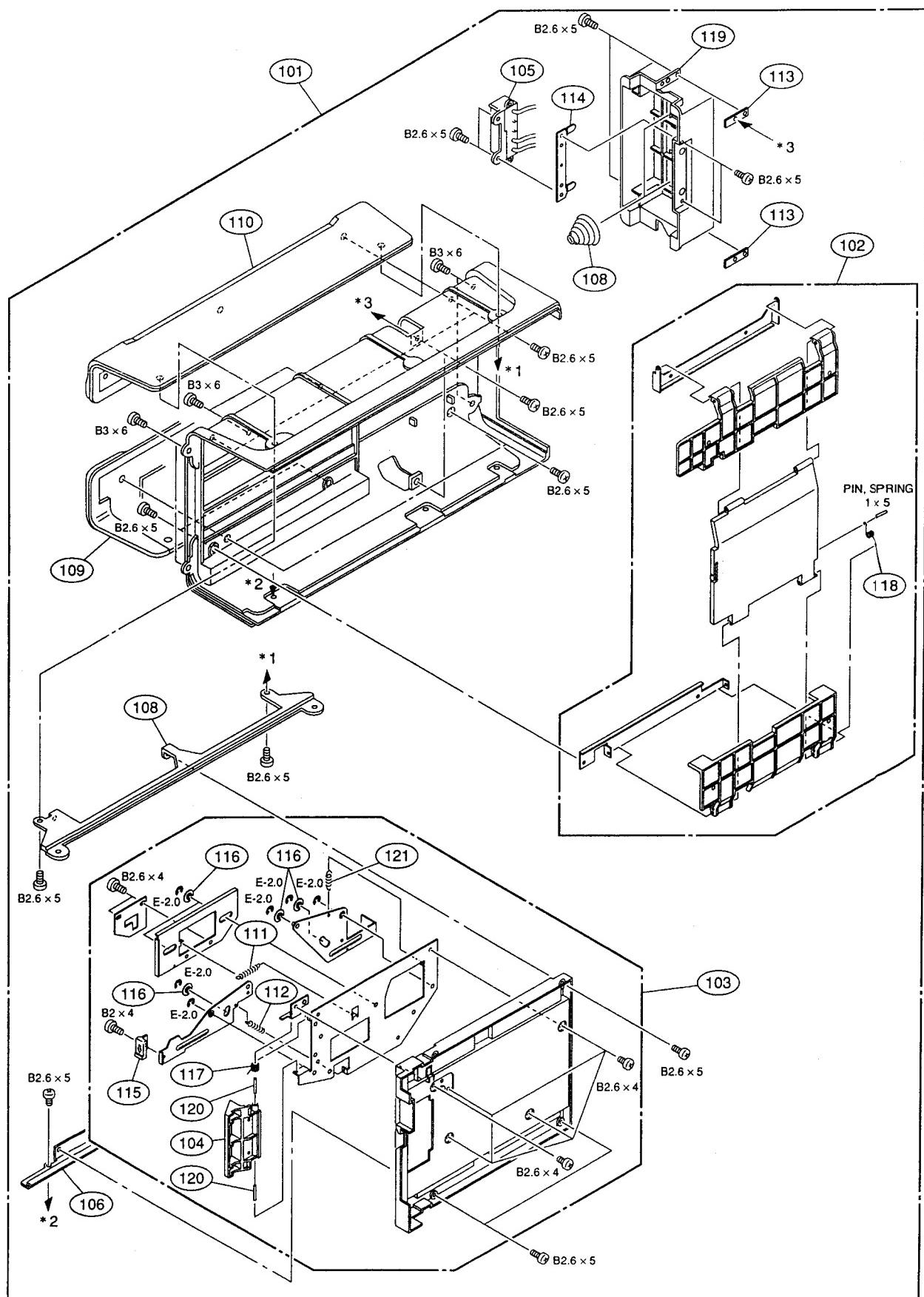
## TOP AND BOTTOM PANELS



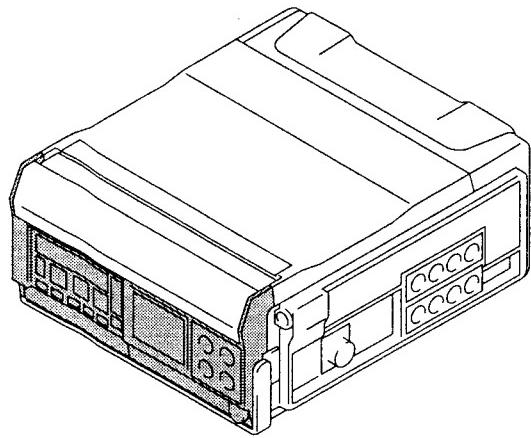
## **BATTERY CASE**



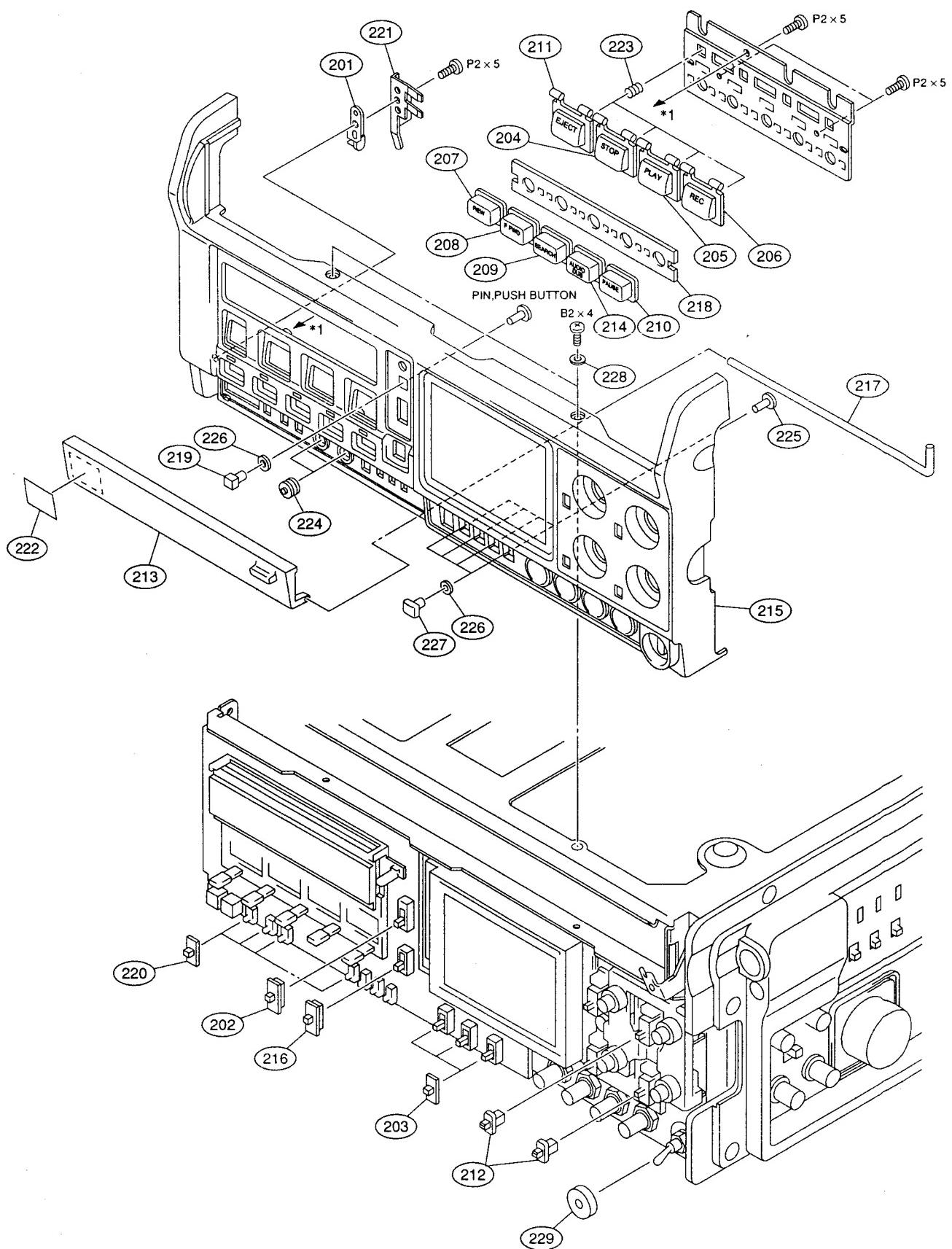
No.	Part No.	SP Description
101	A-8269-458-A	o CABINET (REAR) ASSY
102	A-8278-224-D	o PARTITION ASSY
103	A-8278-225-G	o PARTITION ASSY, CASE
104	X-3678-499-1	s ASSY, ARM, LOCK
105	1-955-096-12	o HARNESS, BATT-CON
106	3-169-347-05	o HOLDER (B), ROLLER
107	3-169-424-01	s SPRING, COMPRESSION
108	3-169-543-01	o BRACKET (A), BT
109	3-169-569-01	o CUSHION (B)
110	3-169-570-01	o CUSHION (A)
111	3-308-704-00	s SPRING, TENSION
112	3-328-345-01	s SPRING, TENSION
113	3-691-393-01	o BRACKET,CASE
114	3-691-394-01	o BRACKET,CONNECTOR
115	3-691-518-01	o PUSH BUTTON
116	3-691-526-01	o ROLLER
117	3-691-534-02	o SPRING(2),RETURN,ARM
118	3-691-535-01	o SPRING(4),RETURN,ARM
119	3-691-595-02	o RETAINER, BATTERY
120	3-703-357-06	l PIN, PARALLEL (DIA. 1.6X14)
121	4-606-856-01	s SPRING, TENSION



## FRONT PANEL

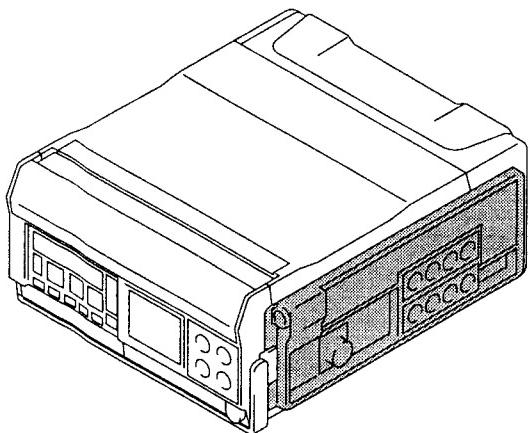


No.	Part No.	SP Description
201	X-3165-755-1	o RETAINER ASSY, TOGGLE
202	X-3165-862-1	s KNOB ASSY (3P)
203	X-3165-863-1	s KNOB ASSY (2P)
204	X-3166-129-1	o BUTTON ASSY (STOP)
205	X-3166-130-1	o BUTTON ASSY (PLAY)
206	X-3166-131-1	o BUTTON ASSY (REC)
207	X-3166-132-1	o BUTTON ASSY (REW)
208	X-3166-133-1	o BUTTON ASSY (F FWD)
209	X-3166-134-1	o BUTTON ASSY (SEARCH)
210	X-3166-136-1	o BUTTON ASSY (PAUSE)
211	X-3166-137-1	o BUTTON ASSY (EJECT)
212	X-3678-392-1	o KNOB ASSY, SELECTION
213	X-3678-395-1	o COVER ASSY, TC
214	X-3678-396-1	o BUTTON ASSY (CUE DUB)
215	X-3678-397-2	o PANEL(N) SUB ASSY, FRONT (for J, UC) X-3678-418-2 o PANEL(P) SUB ASSY, FRONT (for SY)
216	X-3719-113-1	s KNOB ASSY
217	3-169-388-01	o SHAFT, TC COVER
218	3-169-389-01	o CUSHION, KEY
219	3-169-390-01	s BUTTON, RESET
220	3-170-161-01	s KNOB, SW
221	3-173-283-02	o PLATE, GROUND, FP
222	3-184-994-01	o ISR STICKER(S)
223	3-571-850-00	s SPRING, COMPRESSION
224	3-676-244-11	s COVER, SW
225	3-686-085-01	o PIN, PUSH BUTTON
226	3-686-086-01	o CUSHION, BUTTON
227	3-691-507-01	o BUTTON, MENU
228	3-701-437-21	s WASHER
229	3-729-007-01	o PLATE, ORNAMENTAL, TOGGLE SW



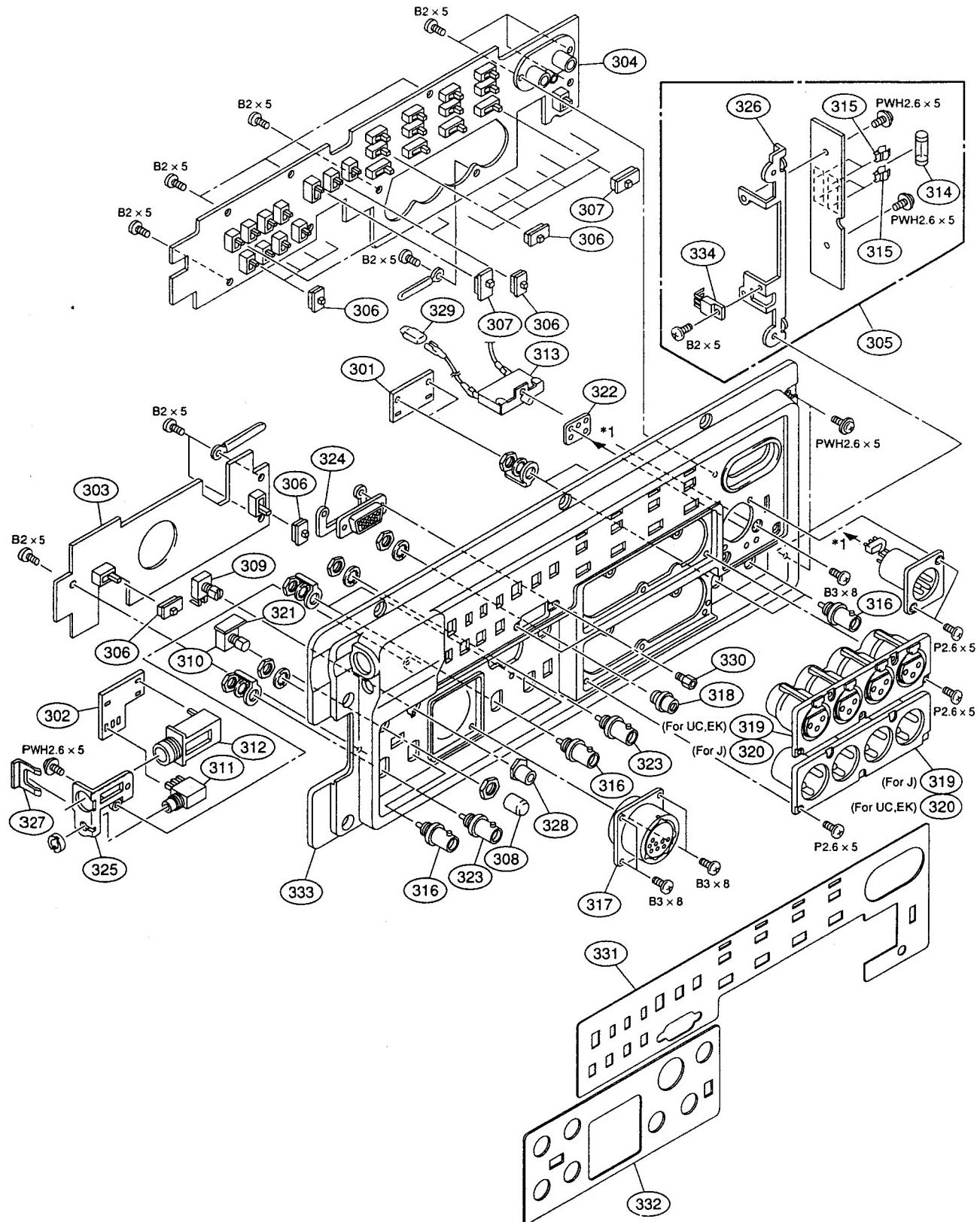
## CONNECTOR PANEL

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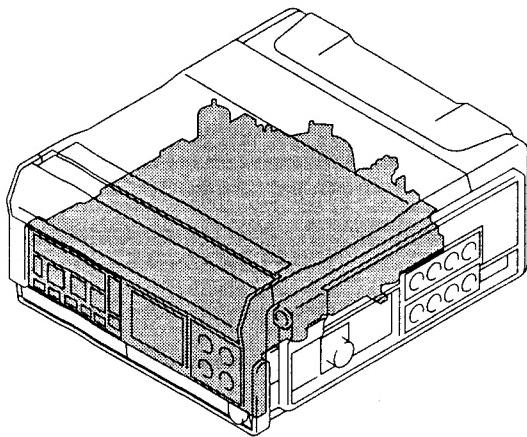


No.	Part No.	SP Description
301	A-8272-756-A	o MOUNTED CIRCUIT BOARD, CON-18
302	A-8272-757-A	o MOUNTED CIRCUIT BOARD, DUS-339
303	A-8276-932-A	o MOUNTED CIRCUIT BOARD, CC-66
304	A-8276-936-A	o MOUNTED CIRCUIT BOARD, CP-260J (for J)
	A-8276-934-A	o MOUNTED CIRCUIT BOARD, CP-260 (for UC, SY)
305	A-8276-938-A	o MOUNTED CIRCUIT BOARD, FU-63
306	X-3166-331-1	s KNOB ASSY (2 POSI)
307	X-3166-332-1	s KNOB ASSY (3 POSI)
308	X-3682-814-0	s KNOB ASSY, CONTROL
309	1-241-521-11	s RES, VAR, CARBON 5K
310	1-241-577-11	s RES, VAR, CARBON 20K/20K
311	1-507-743-21	s JACK, STEREO MINIATURE
312	1-507-863-51	s JACK, LARGE TYPE
313	▲ 1-532-525-31	s BREAKER, CIRCUIT
314	▲ 1-532-749-11	s FUSE, GLASS TUBE
315	1-533-189-11	s HOLDER, FUSE
316	1-561-336-00	s CONNECTOR, COAXIAL
317	1-562-245-11	o RECEPTACLE, CONNECTOR 26P
318	1-565-072-11	s CONNECTOR, ROUND TYPE (RF) 4P
319	1-566-616-11	s CONNECTOR, XLR (F) (4 GANG) 3P
320	1-566-617-11	s CONNECTOR, XLR (M) (4 GANG) 3P
321	1-657-814-11	o PRINTED CIRCUIT BOARD, VR-205
322	1-658-773-11	o PRINTED CIRCUIT BOARD, DC-85
323	1-774-157-11	s CONVERTER, COAXIAL CONNECTOR
324	2-139-018-01	s NUT (D SUB 9P), PLATE
325	3-169-382-02	o BRACKET, HEADPHONE
326	3-169-383-01	o BRACKET, PANEL
327	3-169-384-01	o PLATE, SNAP
328	3-169-385-01	o GUARD, VR
329	3-169-455-01	s SLEEVE, INSULATING
330	3-673-910-31	s SCREW, CONNECTOR
331	3-691-557-01	o SHEET(L)J, CONNECTOR PANEL (for J)
	3-691-560-01	o SHEET(L)UC, CONNECTOR PANEL (for UC, SY)
332	3-691-558-02	o SHEET(S), CONNECTOR PANEL
333	3-691-561-02	o PANEL, CONNECTOR
334	8-729-034-88	TRANSISTOR 2SK2205

## **CONNECTOR PANEL**

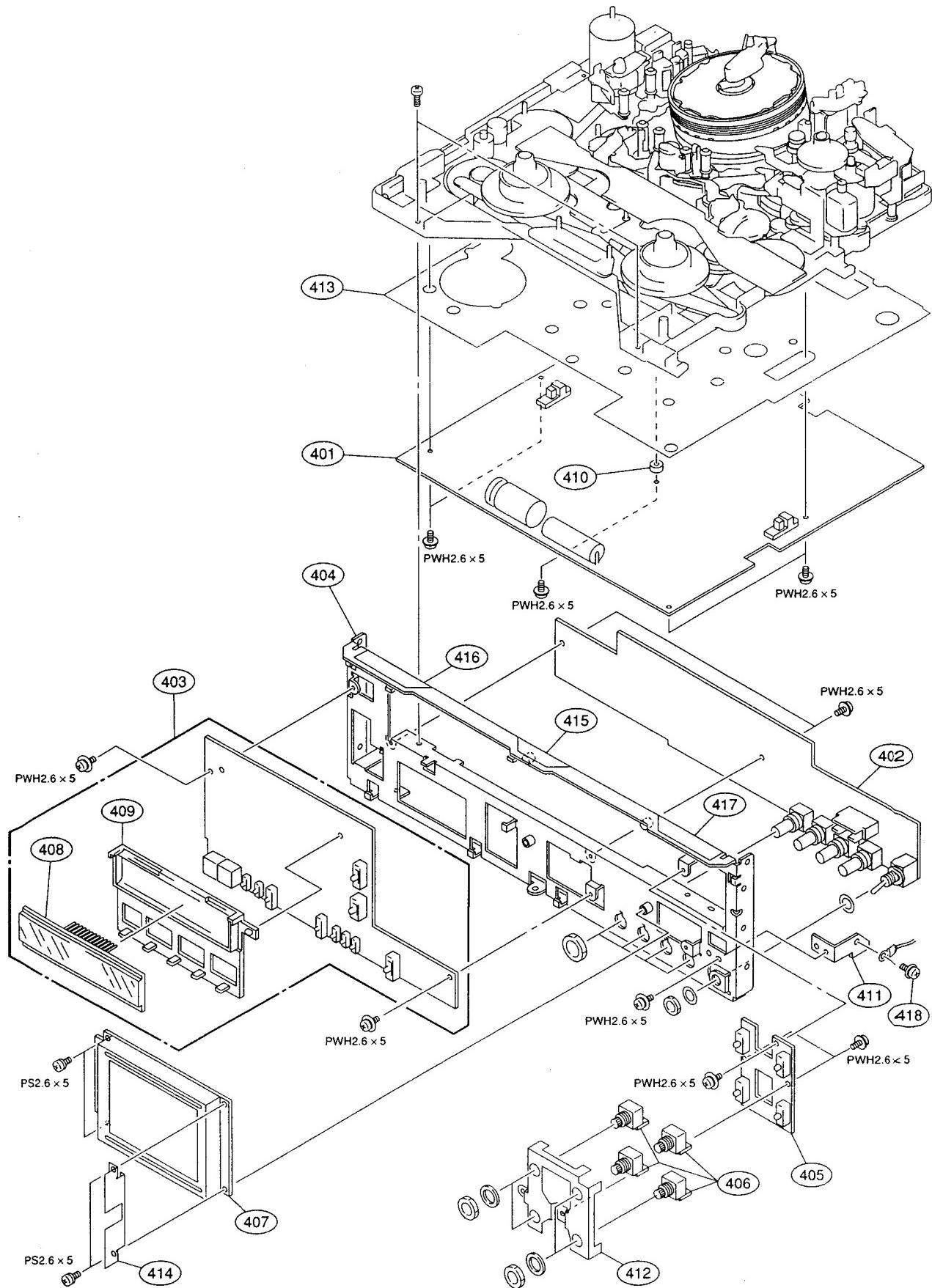


## FRONT CHASSIS AND MOUNTED CIRCUIT BOARDS

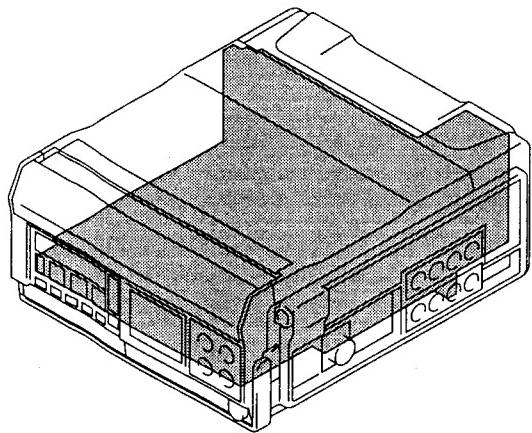


No.	Part No.	SP Description
401	A-8276-910-A o	MOUNTED CIRCUIT BOARD, SST-3 (for J, UC)
	A-8276-912-A o	MOUNTED CIRCUIT BOARD, SST-3P (for SY)
402	A-8276-930-A o	MOUNTED CIRCUIT BOARD, ADA-44
403	A-8276-948-A o	MOUNTED CIRCUIT BOARD, KY-315 (for J, UC)
	A-8276-950-A o	MOUNTED CIRCUIT BOARD, KY-315P (for, SY)
404	X-3678-391-4 o	CHASSIS, FRONT ASSY
405	1-657-808-11 o	PRINTED CIRCUIT BOARD, VR-194
406	1-657-809-11 o	PRINTED CIRCUIT BOARD, VR-206
407	1-801-022-11 s	DISPLAY MODULE, LIQUID CRYSTEL
408	1-809-345-11 s	DISPLAY PANEL, LIQUID CRYSTAL
409	3-169-546-02 o	HOLDER, LCD
410	3-545-567-00 o	TIRE, FF
411	3-691-395-03 o	PLATE, FIXED BOARD
412	3-691-398-01 o	PLATE, BRACKET VOLUME
413	3-691-580-02 o	INSULATOR, SST
414	3-695-882-01 o	PLATE, SHIELD
415	3-695-883-02 o	TAPE(M), PROTECTOR
416	3-695-884-02 o	TAPE(L), PROTECTOR
417	3-695-885-02 o	TAPE(R), PROTECTOR
418	4-950-558-02 o	SCREW (S)

## FRONT CHASSIS AND MOUNTED CIRCUIT BOARDS

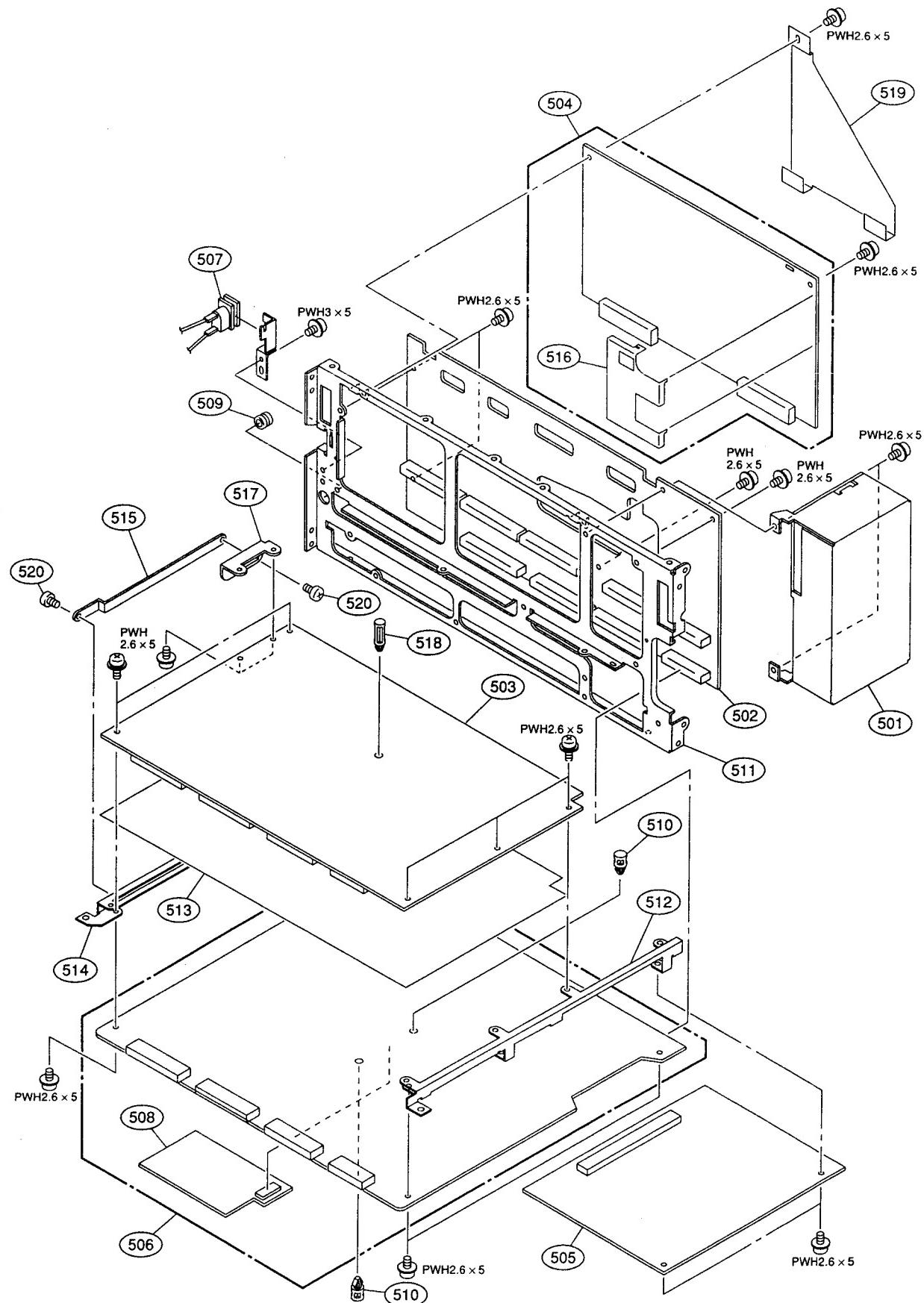


## REAR CHASSIS AND VIDEO BOARDS

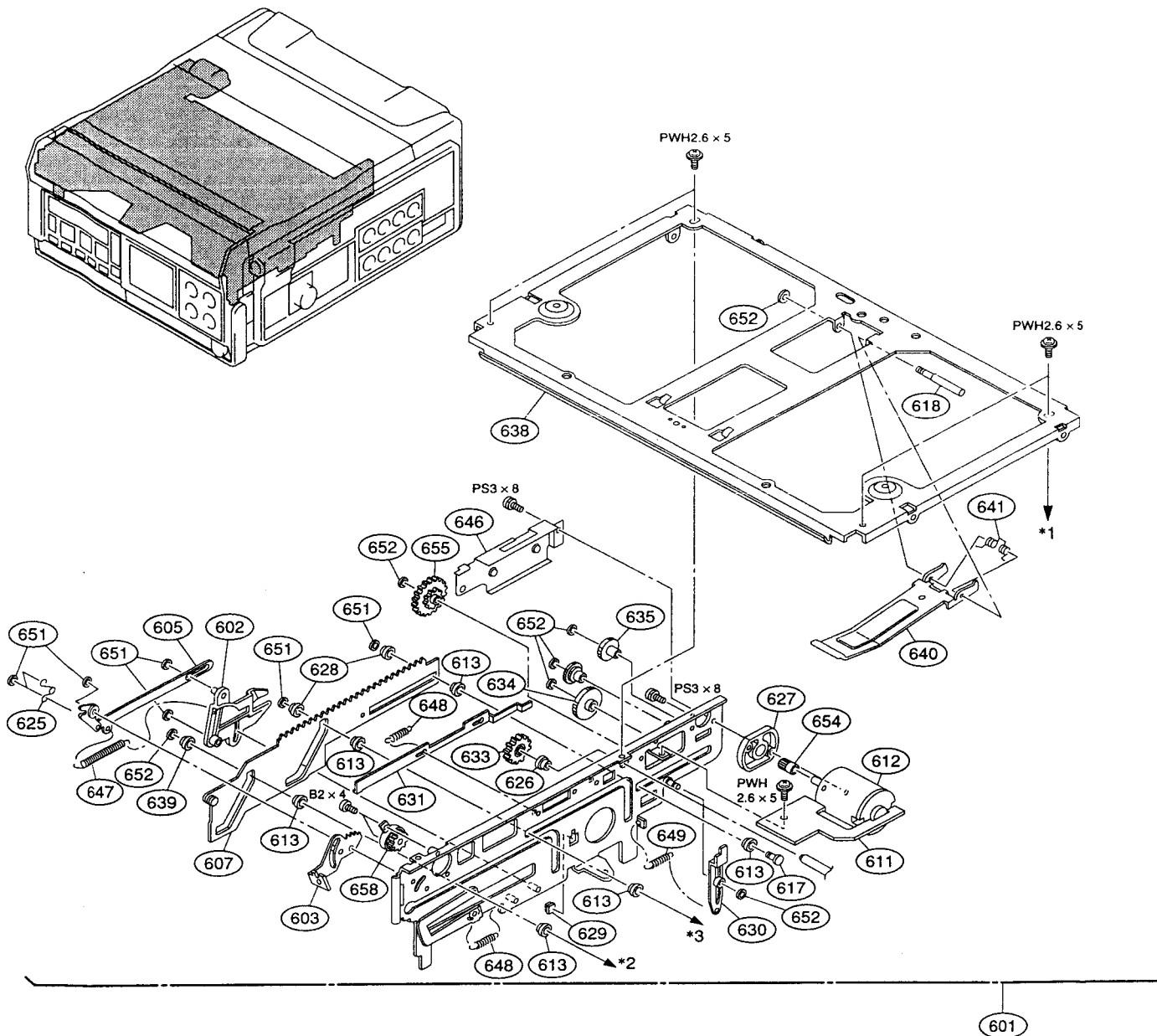


No.	Part No.	SP Description
501	A-8269-442-A s	POWER ASSY (for J)
	A-8269-463-A s	POWER ASSY (for UC, SY)
502	A-8276-909-A o	MOUNTED CIRCUIT BOARD, MB-601
503	A-8276-914-A o	MOUNTED CIRCUIT BOARD, VPR-12 (for J, UC)
	A-8276-942-A o	MOUNTED CIRCUIT BOARD, VPR-12P (for SY)
504	A-8276-922-A o	MOUNTED CIRCUIT BOARD, EQ-54
505	A-8276-928-A o	MOUNTED CIRCUIT BOARD, DIF-31
506	A-8276-944-A o	MOUNTED CIRCUIT BOARD, DPR-62 (for J, UC)
	A-8276-946-A o	MOUNTED CIRCUIT BOARD, DPR-62P (for SY)
507	1-507-905-11 s	JACK, DC
508	1-658-297-11 o	PRINTED CIRCUIT BOARD, APR-20
509	2-377-709-00 o	BUSHING, RUBBER
510	3-682-057-11 s	SPACER (SMALL)
511	3-691-388-01 o	CHASSIS, REAR
512	3-691-389-03 o	HOLDER, R
513	3-691-390-02 o	SHIELD PLATE, VIDEO
514	3-691-391-04 o	HOLDER, L
515	3-691-396-01 o	SUPPORT, CHASSIS
516	3-691-503-02 o	CASE, SHIELD LA
517	3-691-515-02 o	RETAINER, STAY
518	3-691-950-01 o	SPACER, P.C.B
519	3-693-971-01 o	PLATE, BLIND
520	4-950-558-02 o	SCREW (S)

## REAR CHASSIS AND VIDEO BOARDS

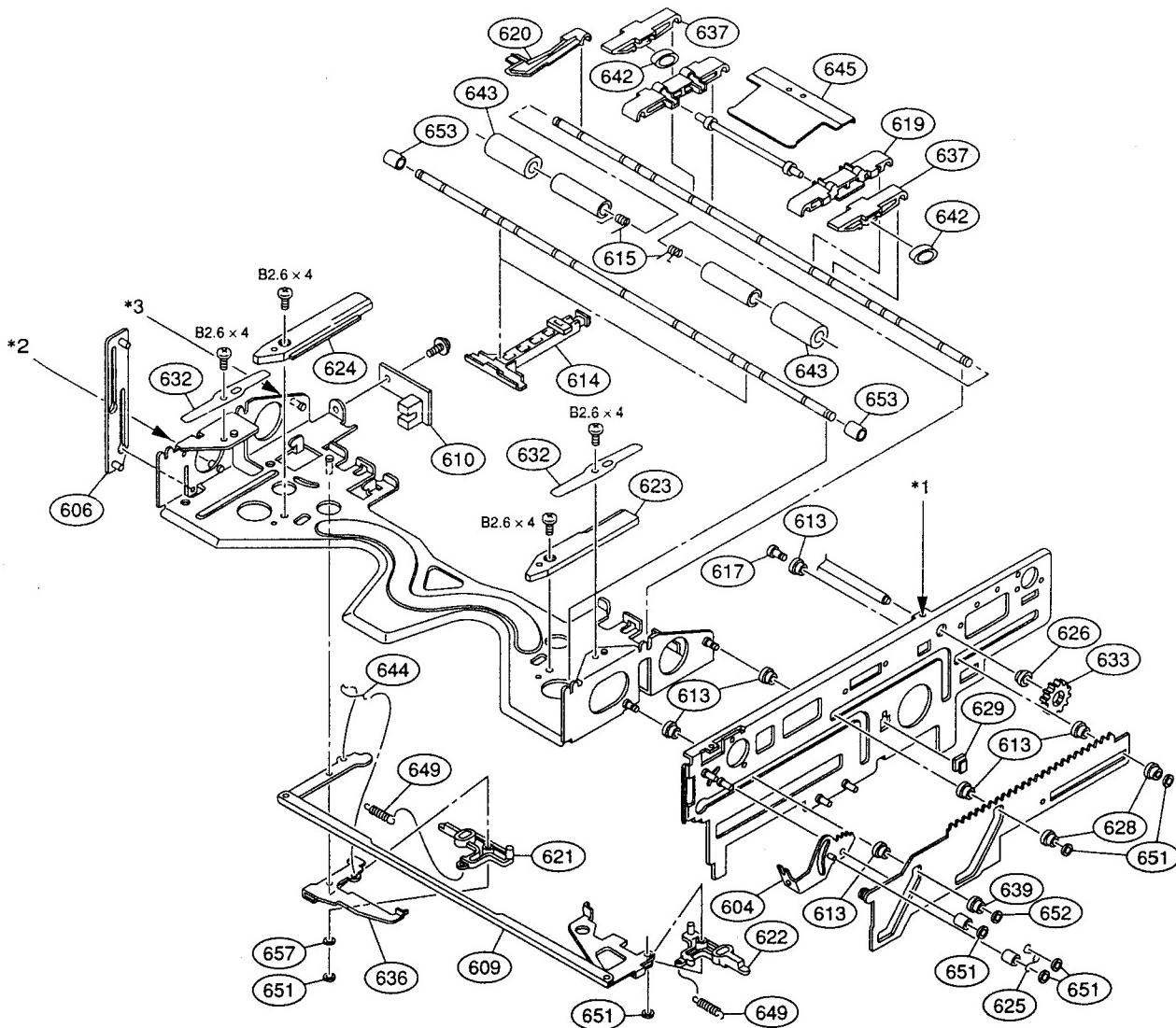


## CASSETTE COMPARTMENT



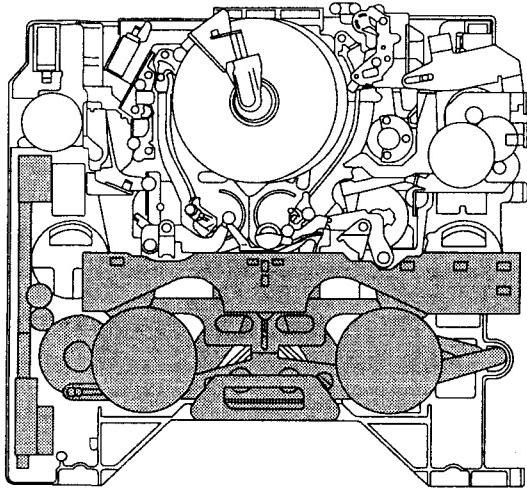
No.	Part No.	SP Description
601	A-8269-732-A	s CASSETTE COMPARTMENT ASSY
602	X-3165-739-1	o CAM (L) ASSY
603	X-3165-740-1	o ARM (L) ASSY, FF
604	X-3165-741-1	o ARM (R) ASSY, FF
605	X-3165-742-1	o ARM (L) ASSY, SWITCHING
606	X-3165-746-3	o ARM ASSY, RACK DRIVING
607	X-3165-747-2	o RACK (L) ASSY, C
608	X-3165-748-2	o RACK (R) ASSY, C
609	X-3165-770-2	o LEVER (R) ASSY, PUSH-OUT
610	1-638-701-12	o PRINTED CIRCUIT BOARD, CS-25
611	1-638-702-11	o PRINTED CIRCUIT BOARD, CS-26
612	1-698-335-11	s MOTOR, DC (SVD-1489)
613	3-169-352-02	o ROLLER (A), C
614	3-169-441-01	o RETAINER (S), CASSETTE
615	3-169-444-01	o SPRING (R), DETECTION

No.	Part No.	SP Description
616	3-169-445-01	o SPRING (L), DETECTION
617	3-169-456-01	o SHAFT (R), ROLLER
618	3-169-457-01	o SHAFT, ARM, LOCK
619	3-169-458-02	o ARM, JOINT
620	3-169-460-01	o ARM, L DETECTION
621	3-169-463-03	o ARM (L), PUSH-OUT
622	3-169-464-03	o ARM (R), PUSH-OUT
623	3-169-466-03	o GUIDE (R), CASSETTE
624	3-169-467-01	o GUIDE (L), CASSETTE
625	3-169-468-02	o SPRING (A), TOGGLE
626	3-169-469-01	o BEARING
627	3-169-470-02	o WASHER, C MOTOR
628	3-169-471-01	s ROLLER (B), C
629	3-169-472-01	o CAM, PUSH-OUT
630	3-169-473-01	o SHUTTER, C DOWN

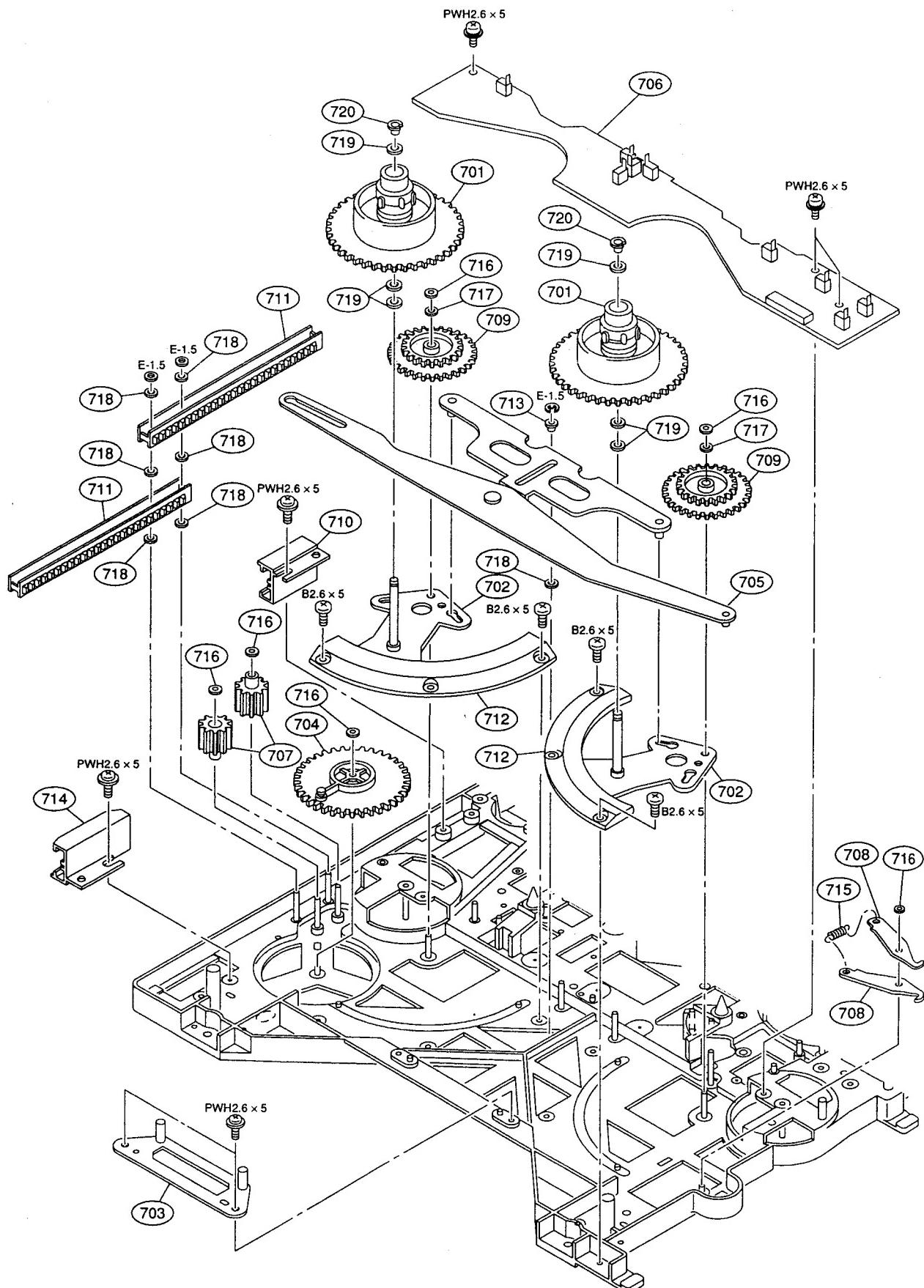


No.	Part No.	SP Description	No.	Part No.	SP Description
631	3-169-474-02	o SHUTTER, C UP	646	3-178-212-02	s SUPPORT, SHAFT, C GEAR
632	3-169-475-02	o SPRING, CASSETTE RETAINER	647	3-556-464-00	s SPRING, TENSION
633	3-169-477-02	s GEAR (5), C	648	3-578-388-00	s SPRING, TENSION
634	3-169-479-03	s GEAR (3), C	649	3-515-167-00	s SPRING, TENSION
635	3-169-480-03	s GEAR (2), C	650	3-657-841-01	s SPACER (2X2)
636	3-169-482-02	o LEVER (L), PUSH-OUT	651	3-669-465-01	s WASHER (1.5), STOPPER
637	3-169-499-03	o LEVER, CORRECTION DETECTION	652	3-676-387-00	s POLY-SLIDER (DIA.1.6)
638	3-169-557-11	o STAY, C	653	3-691-575-01	o PETAINER,L CASSETTE
639	3-170-821-01	s ROLLER (C), C	654	3-694-266-01	s GEAR,C PINION
640	3-170-822-01	o ARM, C LOCK	655	3-694-286-01	s GEAR,C4
641	3-170-823-02	s SPRING, LOCK ARM	656	3-695-848-01	s GEAR,C1
642	3-172-394-01	o SPACER, RUBBER	657	3-701-437-01	s WASHER
643	3-172-873-01	s ROLLER, CASSETTE RETAINER	658	3-712-786-11	s DAMPER, OIL
644	3-172-874-02	s SPRING, C IN SHUTTER			
645	3-172-876-02	o SPRING (A), C STOPPER			

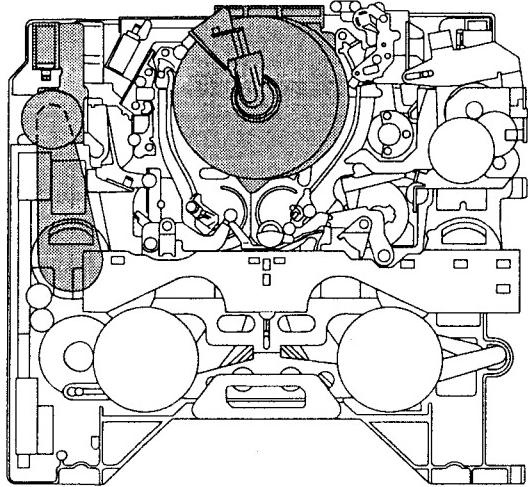
## S/T REEL TABLES



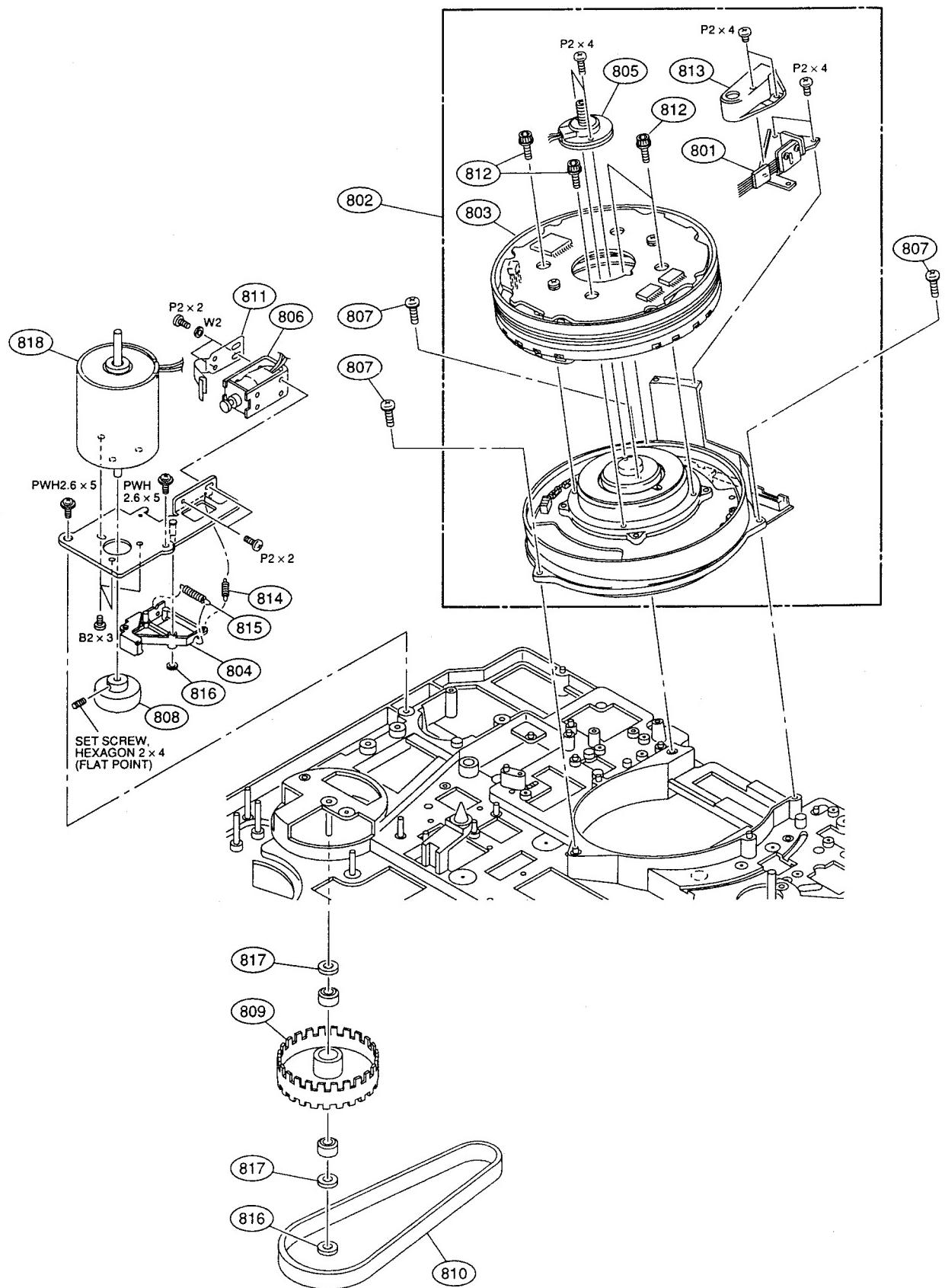
No.	Part No.	SP Description
701	A-6739-095-A	s TABLE ASSY, REEL
702	X-3165-760-1	o ARM ASSY, REEL
703	X-3165-761-1	o BASE ASSY, C SUPPORT
704	X-3165-763-1	s GEAR ASSY, OSCILLATION
705	X-3165-775-2	o LINK ASSY, SLIDE
706	1-657-800-11	o PRINTED CIRCUIT BOARD, SE-233
707	3-169-500-01	s GEAR, IDLE
708	3-169-501-02	o PLATE, LIMITER
709	3-169-504-01	s GEAR, RELAY
710	3-169-509-01	s RAIL, GUIDE
711	3-169-511-01	o RACK, DRIVING
712	3-169-512-01	o RETAINER, REEL ARM
713	3-171-987-01	s ROLLER (G)
714	3-172-123-01	s RAIL (F), GUIDE
715	3-549-014-00	s SPRING, TENSION
716	3-676-387-00	s POLY-SLIDER (DIA. 1.6)
717	3-701-437-11	s WASHER
718	3-701-437-21	s WASHER
719	3-701-439-11	s WASHER
720	3-703-074-01	s CAP 3, SHAFT



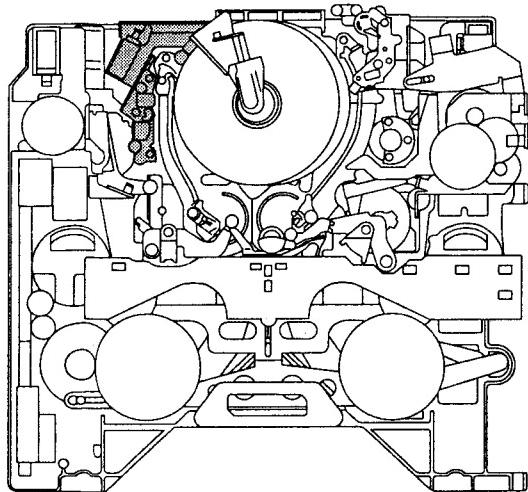
## DRUM AND S-SIDE REEL MOTOR



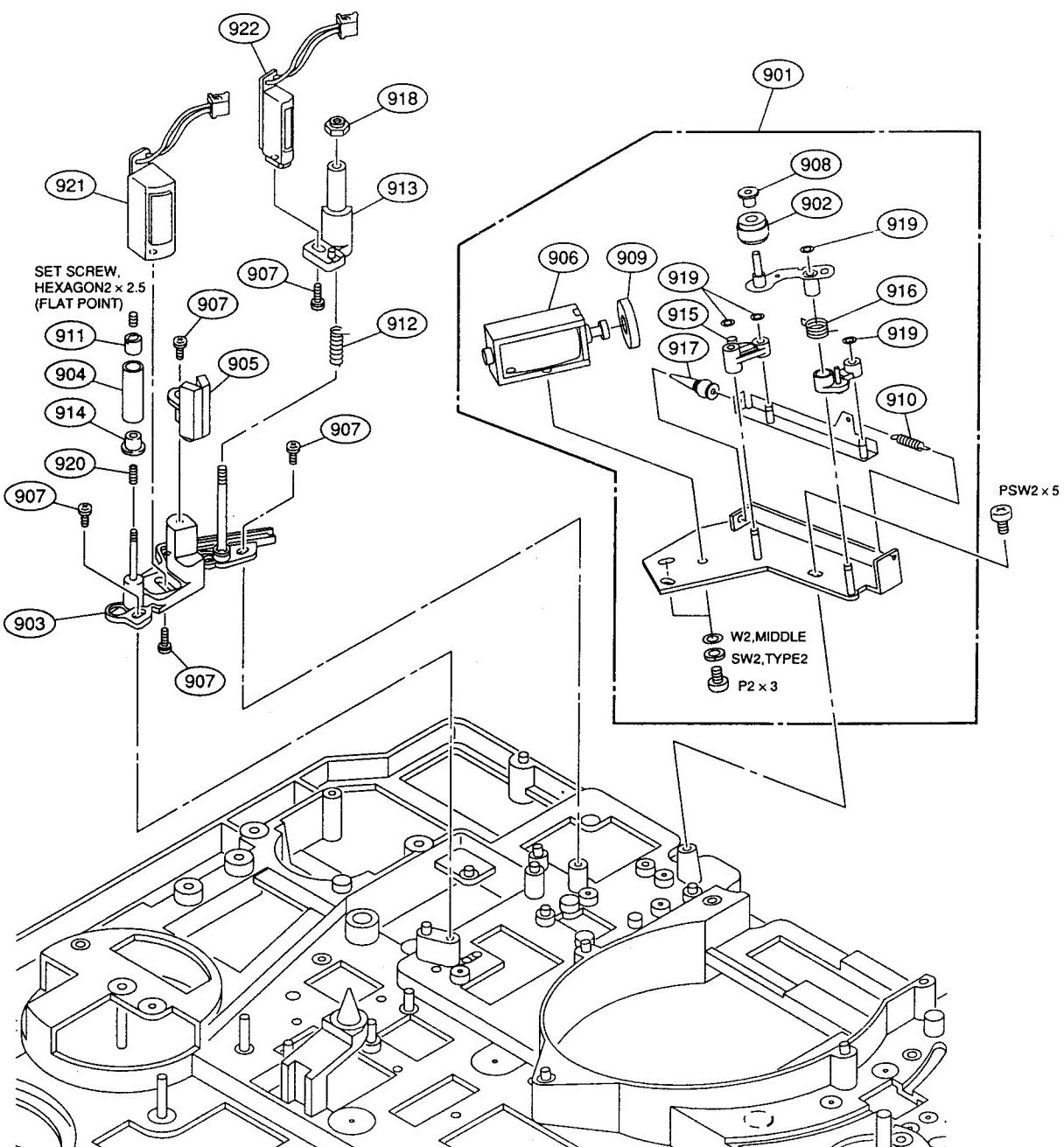
No.	Part No.	SP Description
801	A-8263-460-A	s BRUSH ASSY
802	A-8269-262-A	s DRUM ASSY, DJH-11A-R (for NTSC)
	A-8269-264-A	s DRUM ASSY, DJH-12A-R (for PAL)
803	A-8269-263-A	s UPPER DRUM, DJH-11-R (for NTSC)
	A-8269-261-A	s UPPER DRUM, DJH-12-R (for PAL)
804	X-3165-731-2	s ARM ASSY, BRAKE
805	1-251-207-11	s RING ASSY, SLIP
806	1-454-334-61	s SOLENOID, PLUNGER
807	2-640-315-01	o SCREW (M2X5), SMALL, +P, SW
808	3-169-370-03	o PULLEY, MOTOR
809	3-169-503-03	s PULLEY (B), RELAY
810	3-172-003-01	s BELT, DRIVING
811	3-173-411-01	s SPRING, BRAKE PLATE
812	3-185-531-01	s BOLT M2X3, W HEXAGON
813	3-185-532-01	o COVER, BRUSH
814	3-307-374-00	s SPRING, TENSION
815	3-642-482-00	s SPRING, TENSION
816	3-676-387-00	s POLY-SLIDER (DIA.1.6)
817	3-701-437-21	s WASHER
818	8-835-441-01	s MOTOR R432276751A



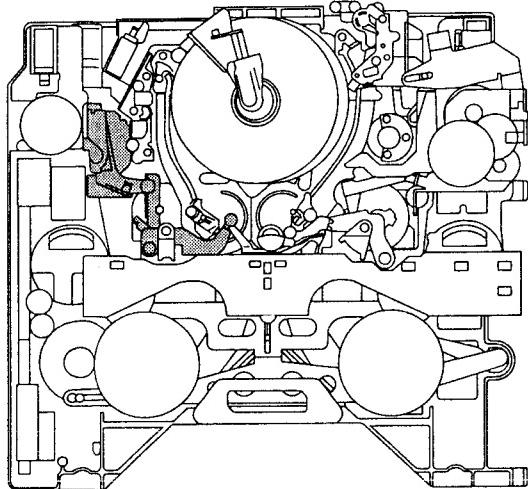
## CTL HEAD AND VIDEO HEAD CLEANER



No.	Part No.	SP Description
901	A-8278-220-B	o CLEANER ASSY, VIDEO HEAD
902	X-3167-281-2	s ROLLER ASSY, V CLEANING
903	X-3678-118-2	o BASE ASSY, CTL FE
904	X-3678-129-2	s ROLLER (2)ASSY, RESIN
905	X-3678-142-1	o CLERNER ASSY, TAPE
906	1-454-607-21	s SOLENOID, PLUNGER
907	2-640-315-01	o SCREW (M2X5), SMALL, +P, SW
908	3-182-765-02	s SPACER, CR
909	3-183-901-01	s WASHER, CL
910	3-527-188-00	s SPRING, TENSION
911	3-679-729-02	s FLANGE, UPPER
912	3-680-043-01	s SPRING,CTL
913	3-680-044-01	o BRACKET, CTL
914	3-680-230-01	s FLANGE, UNDER
915	3-691-552-01	o LEVER,SOLENOID
916	3-691-555-01	o SPRING, TORSION
917	3-691-562-01	o SHOCK ABSORBER
918	3-698-829-01	s NUT (M2)
919	3-726-829-01	l WASHER, STOPPER
920	3-729-011-01	s SPRING, COMPRESSION
921	8-825-770-73	s HEAD, FE EF291-21
922	8-825-779-71	s CTL HEAD (PS244-21D)

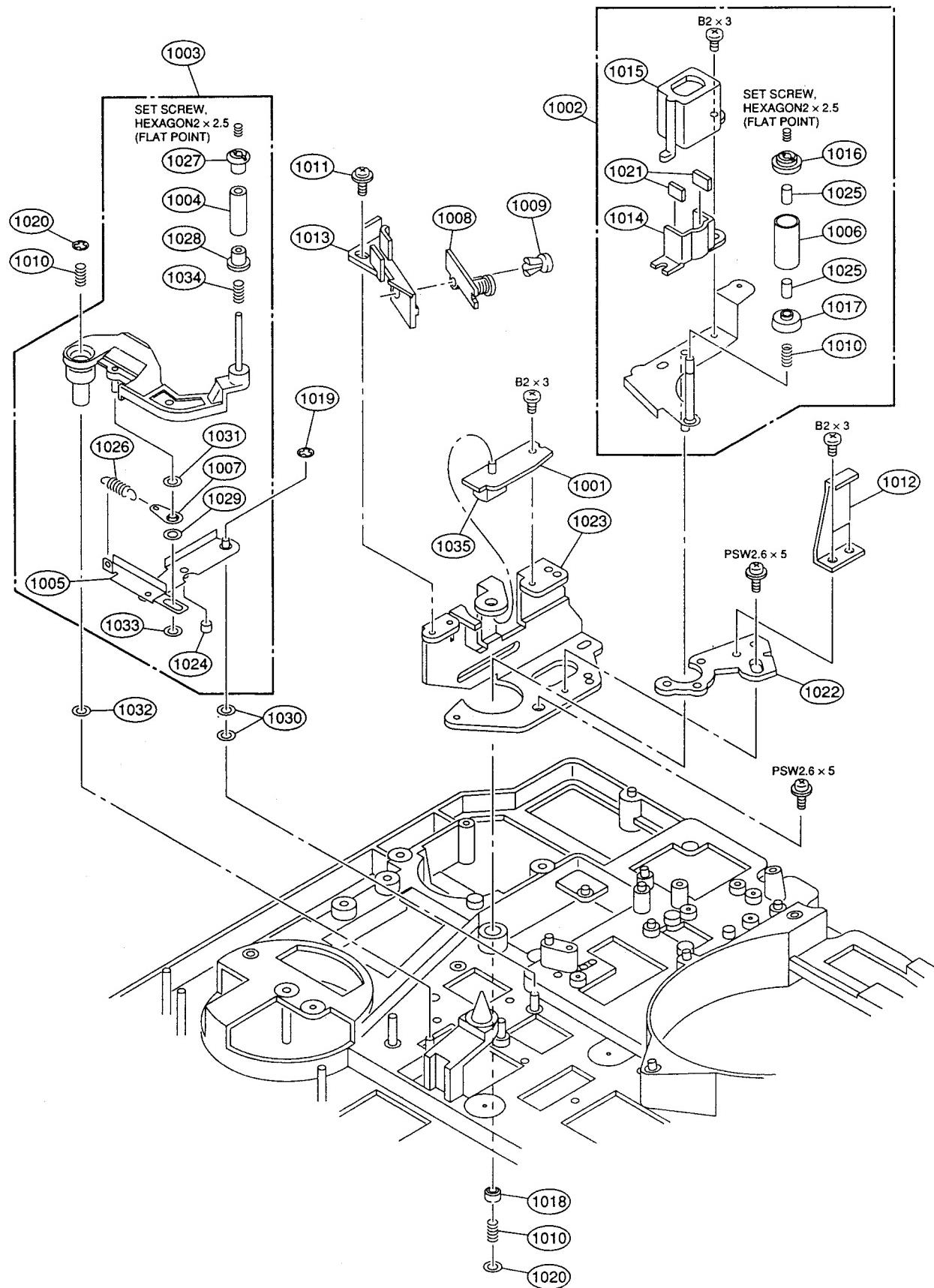


## TENSION REGULATOR AND S-SIDE DRAWING ARM

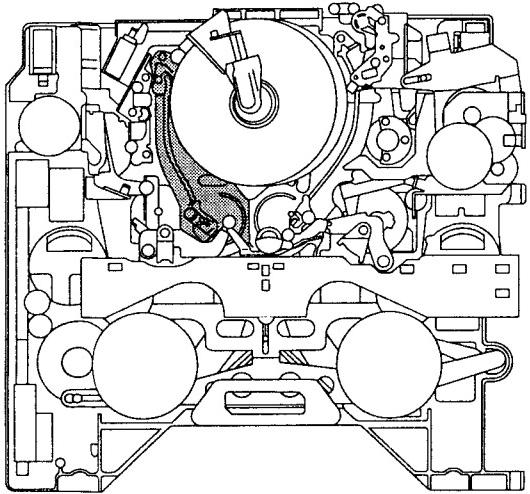


No.	Part No.	SP Description
1001	A-6754-272-A o	MONTEED CIRCUIT BOARD, TR-57
1002	A-8269-451-A s	TENSION REGULATOR ASSY
1003	A-8269-452-A o	ARM ASSY, S
1004	X-3678-091-2 s	ROLLER ASSY
1005	X-3678-388-1 o	DRAWING ARM,ASSY
1006	X-3678-389-1 s	S-TEN ROLLER,ASSY
1007	X-3678-390-1 o	LAG,S-ARM,ASSY
1008	1-543-316-21 s	HEAD, SENSING (SMALL TYPE)
1009	2-279-715-01 s	RIVET, NYLON
1010	2-618-901-00 s	SPRING
1011	2-640-315-01 o	SCREW (M2X5), SMALL, +P, SW
1012	3-169-302-02 o	SPRING (TR), PLATE
1013	3-169-304-01 o	BASE, END SENSOR
1014	3-169-305-01 o	PLATE, YOKE
1015	3-169-336-01 o	GUARD, DME
1016	3-174-315-01 s	FLANGE (UPPER)
1017	3-174-316-02 s	FLANGE (LOWER)
1018	3-669-443-01 s	BEARING, BALL (NO FLANGE)
1019	3-669-465-01 s	WASHER (1.5), STOPPER
1020	3-669-595-00 s	WASHER (2), STOPPER
1021	3-680-828-01 o	MAGNET
1022	3-691-364-01 o	PLATE, TENTION ADJUSTMENT
1023	3-691-376-01 o	BASE,S-TEN
1024	3-691-378-01 s	ROLLER B
1025	3-691-380-01 s	ROLLER C
1026	3-691-381-01 s	SPRING, EXTENSION
1027	3-691-382-02 s	FLANGE,UPPER
1028	3-691-383-02 s	FLANGE,UNDER
1029	3-701-436-11 s	WASHER, 1.6 POLYETHYLENE
1030	3-701-436-21 s	WASHER, POLYEHYLENE
1031	3-701-437-01 s	WASHER
1032	3-701-437-11 s	WASHER
1033	3-726-829-01 l	WASHER, STOPPER
1034	3-729-011-01 s	SPRING, COMPRESSION
1035	8-745-001-07 s	DM-230-1

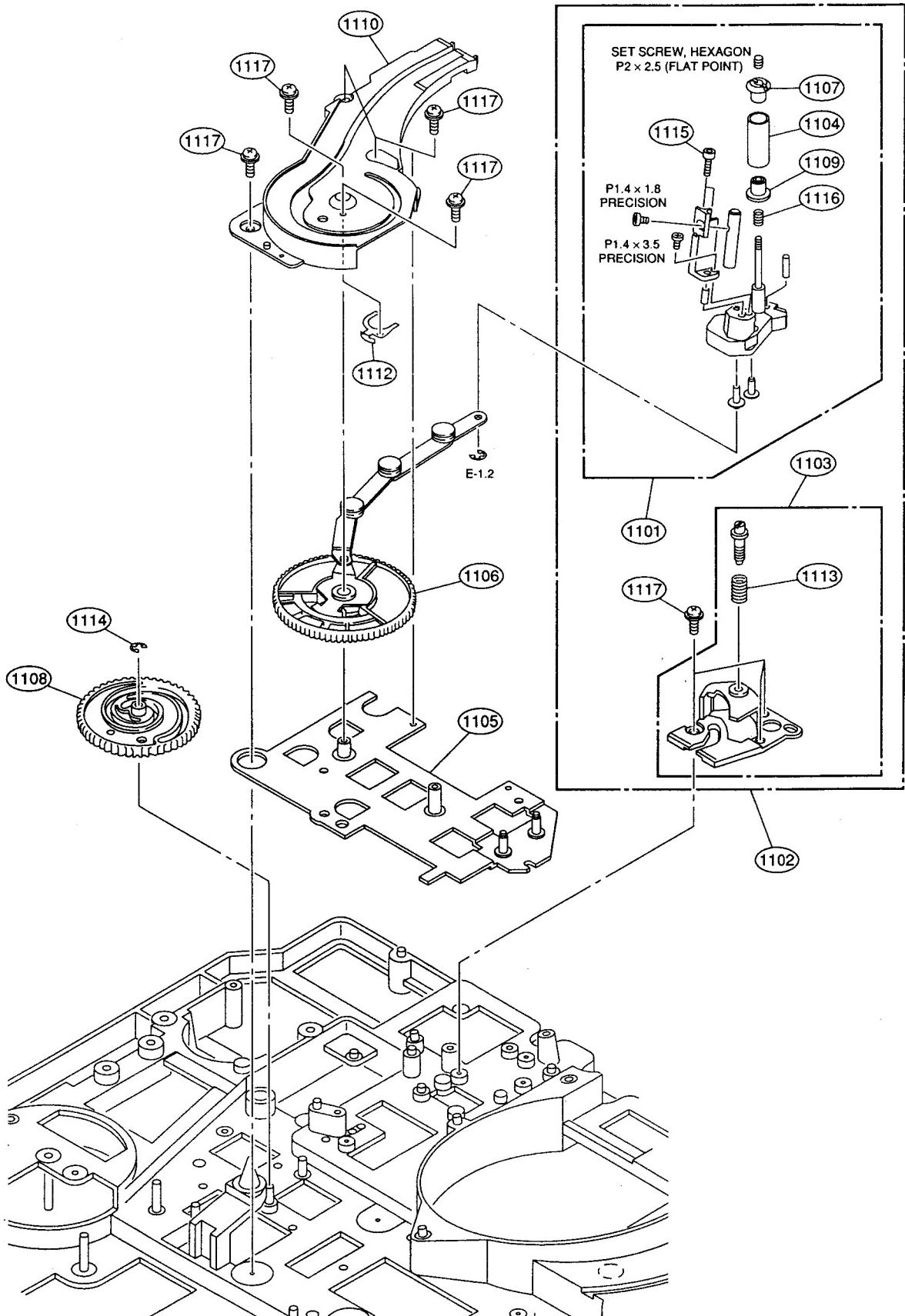
## TENSION REGULATOR AND S-SIDE DRAWING ARM



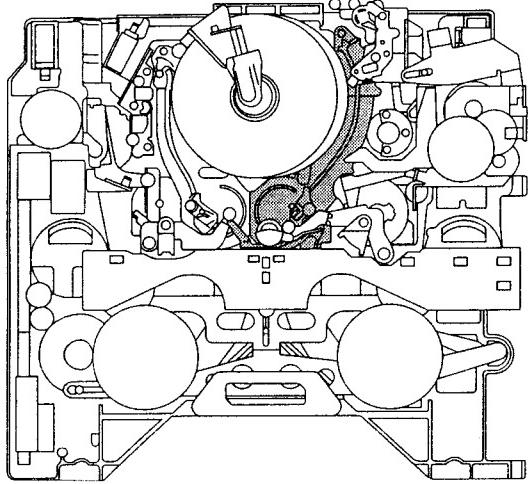
## S-SIDE THREADING LINK



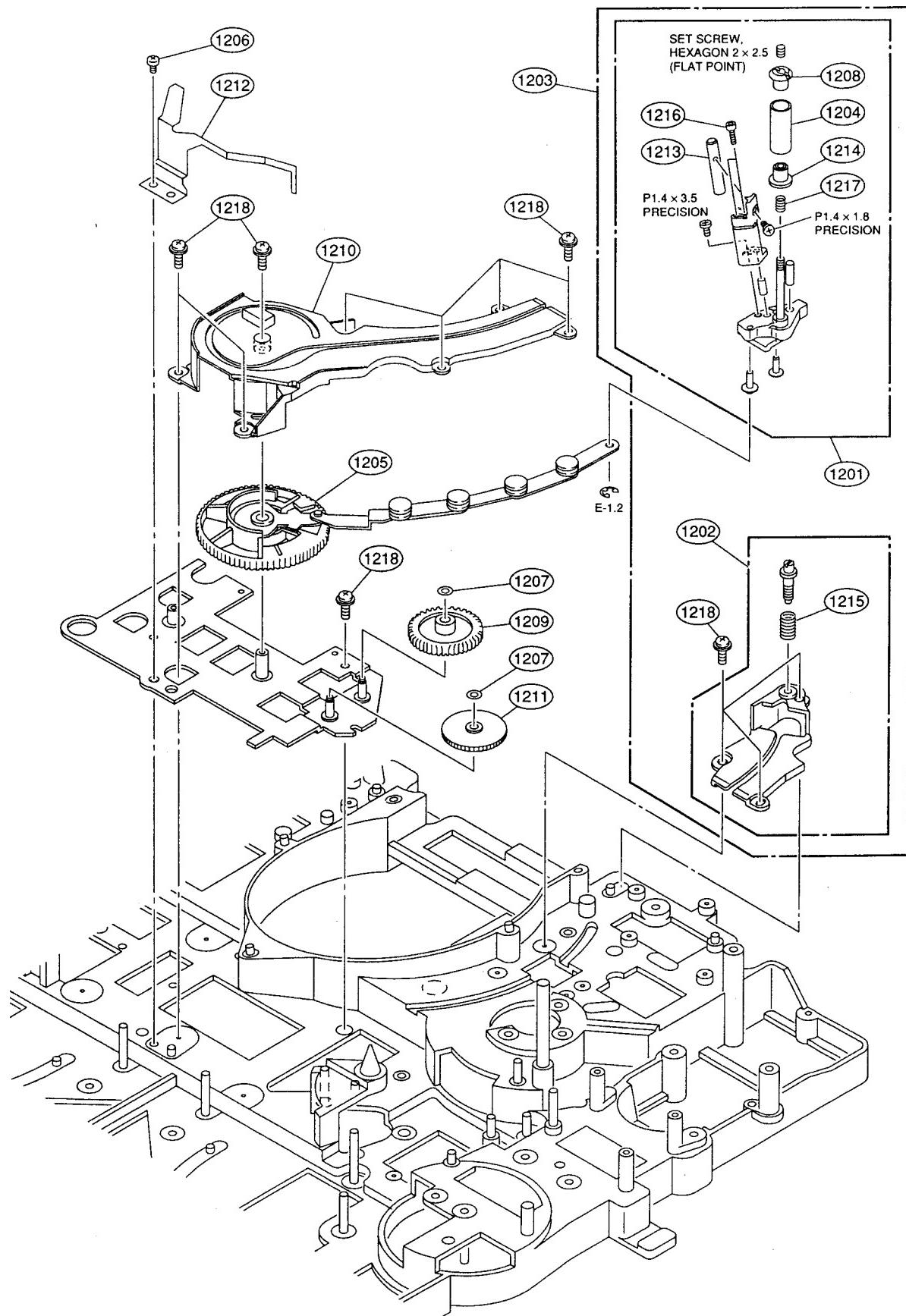
No.	Part No.	SP Description
1101	A-8269-454-B	S SLIDER ASSY, S
1102	A-8272-676-A	s BLOCK ASSY, S DRAWER
1103	A-8278-032-C	o CATCHER S ASSY
1104	X-3678-091-2	s ROLLER ASSY
1105	X-3678-380-2	o BASE, THREADING GEAR ASSY
1106	X-3678-464-1	o GEAR ASSY, THREADING S
1107	3-679-729-02	s FLANGE, UPPER
1108	3-679-777-04	o GEAR, ARM, DRAWER
1109	3-680-230-01	s FLANGE, UNDER
1110	3-691-360-02	o RAIL, S
1111	3-691-577-01	s GUIDE, SLANT
1112	3-691-880-01	o LINK PROTECTOR
1113	3-716-167-01	s SPRING, COMPRESSION
1114	3-726-829-01	l WASHER, STOPPER
1115	3-727-809-01	s BOLT (M1.4X5), HEXAGON SOCKET
1116	3-729-011-01	s SPRING, COMPRESSION
1117	3-729-013-21	s SCREW(M1.4X2.5), WASHERHEAD(+P)



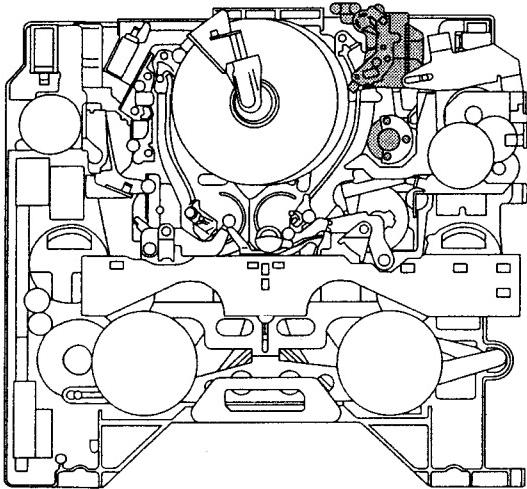
## T-SIDE THREADING LINK



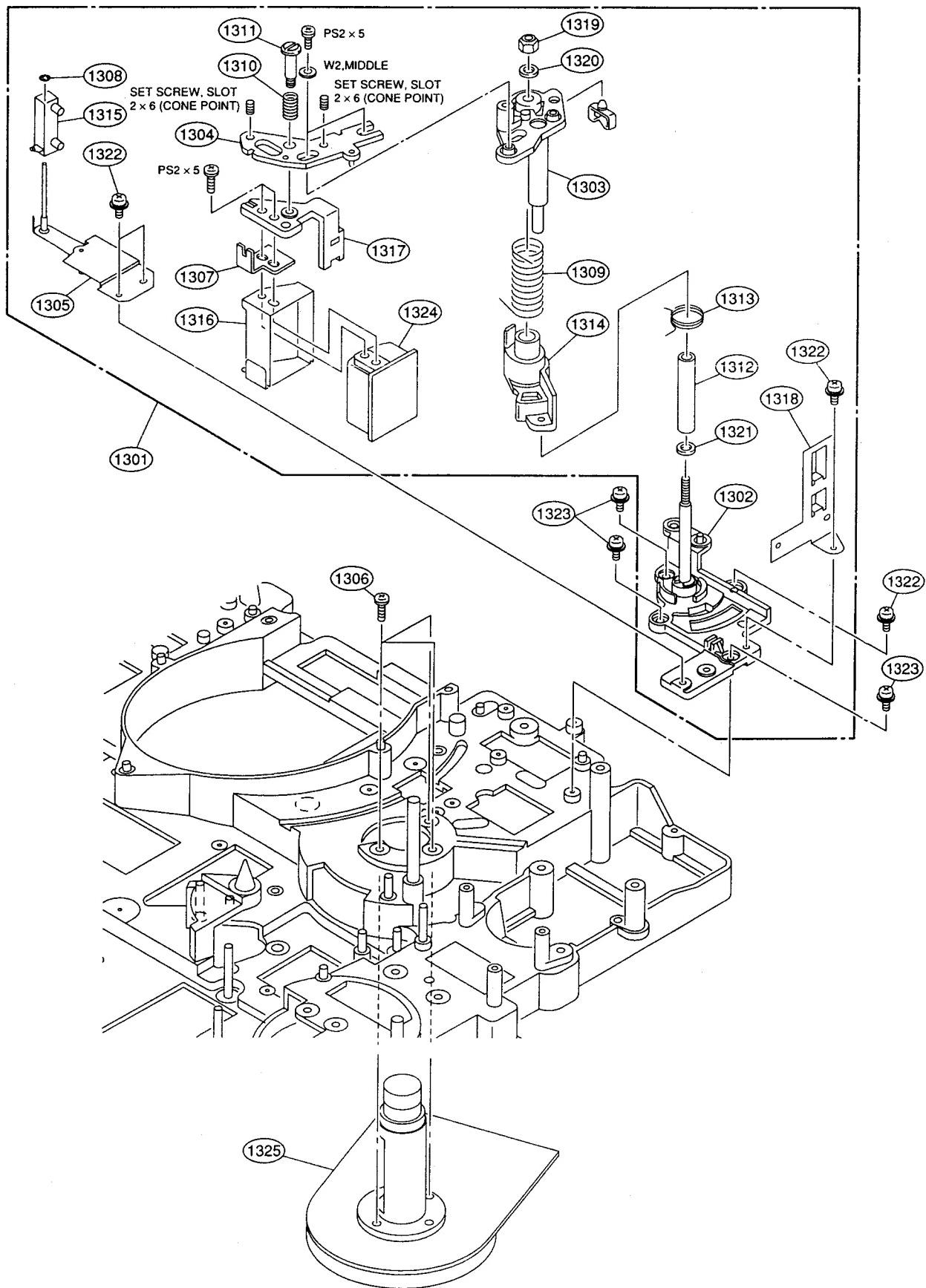
No.	Part No.	SP Description
1201	A-8269-453-B	s SLIDER ASSY, T
1202	A-8278-033-B	o CATCHER T ASSY
1203	A-8278-667-A	s BLOCK ASSY, T DRAWER
1204	X-3678-091-2	s ROLLER ASSY
1205	X-3678-379-2	o GEAR ASSY, THREADING T
1206	2-640-315-01	o SCREW (M2X5), SMALL, +P, SW
1207	3-559-408-11	s WASHER, POLYETHYLENE, DIA.1.2
1208	3-679-729-02	s FLANGE, UPPER
1209	3-679-764-01	o GEAR, MIDWAY, ST DRIVING
1210	3-691-344-01	o RAIL, T
1211	3-691-352-02	s GEAR, ST DRIVING
1212	3-691-563-01	o PLATE, UNTHREAD GUIDING
1213	3-691-577-01	s GUIDE, SLANT
1214	3-694-275-01	s FLANGE, UNDER, T2
1215	3-716-167-01	s SPRING, COMPRESSION
1216	3-727-809-01	s BOLT (M1.4X5), HEXACON SOCKET
1217	3-729-011-01	s SPRING, COMPRESSION
1218	3-729-013-21	s SCREW (M1.4X2.5), WASHERHEAD (+P)



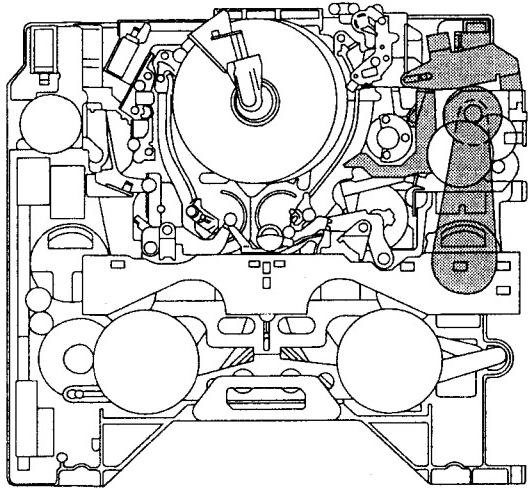
## CUE/TC HEAD AND CAPSTAN MOTOR



No.	Part No.	SP Description
1301	A-8269-466-A o	HEAD ASSY, EXIT
1302	X-3678-095-2 o	PLATE ASSY, BASE CUE/TC
1303	X-3678-112-1 o	PLATE ASSY, CUE/TC ADJUSTMENT
1304	X-3678-378-1 o	PLATE (A), HEAD ASSY
1305	X-3678-434-2 o	ARM ASSY, CLEANER
1306	2-640-315-01 o	SCREW (M2X5), SMALL, +P, SW
1307	3-171-570-01 o	PLATE (R), ADJUSTMENT
1308	3-321-393-01 s	WASHER, STOPPER
1309	3-680-005-01 o	SPRING, CUE/TC
1310	3-680-222-01 s	SPRING, COMPRESSION
1311	3-680-223-01 s	SHAFT
1312	3-680-225-01 o	SLEEVE, SHAFT, MAIN, CUE/TC
1313	3-680-233-01 o	SPRING, RTN
1314	3-680-262-02 o	PLATE, SWING, CUE/TC
1315	3-681-778-02 s	BRUSH, CUE
1316	3-689-893-01 o	CASE, SHIELD
1317	3-689-895-01 o	PLATE (B), HEAD
1318	3-691-881-01 o	HOLDER, HARNESS
1319	3-698-829-01 s	NUT (M2)
1320	3-701-437-11 s	WASHER
1321	3-701-439-11 s	WASHER
1322	3-729-013-21 s	SCREW(M1.4X2.5), WASHERHEAD(+P)
1323	3-729-013-41 s	SCREW(M1.4X3.5), WASHERHEAD(+P)
1324	8-825-920-01 s	HEAD, AUIDO EPS244-2103J
1325	8-835-534-01 s	MOTOR, DC SCV-0702A/J-N

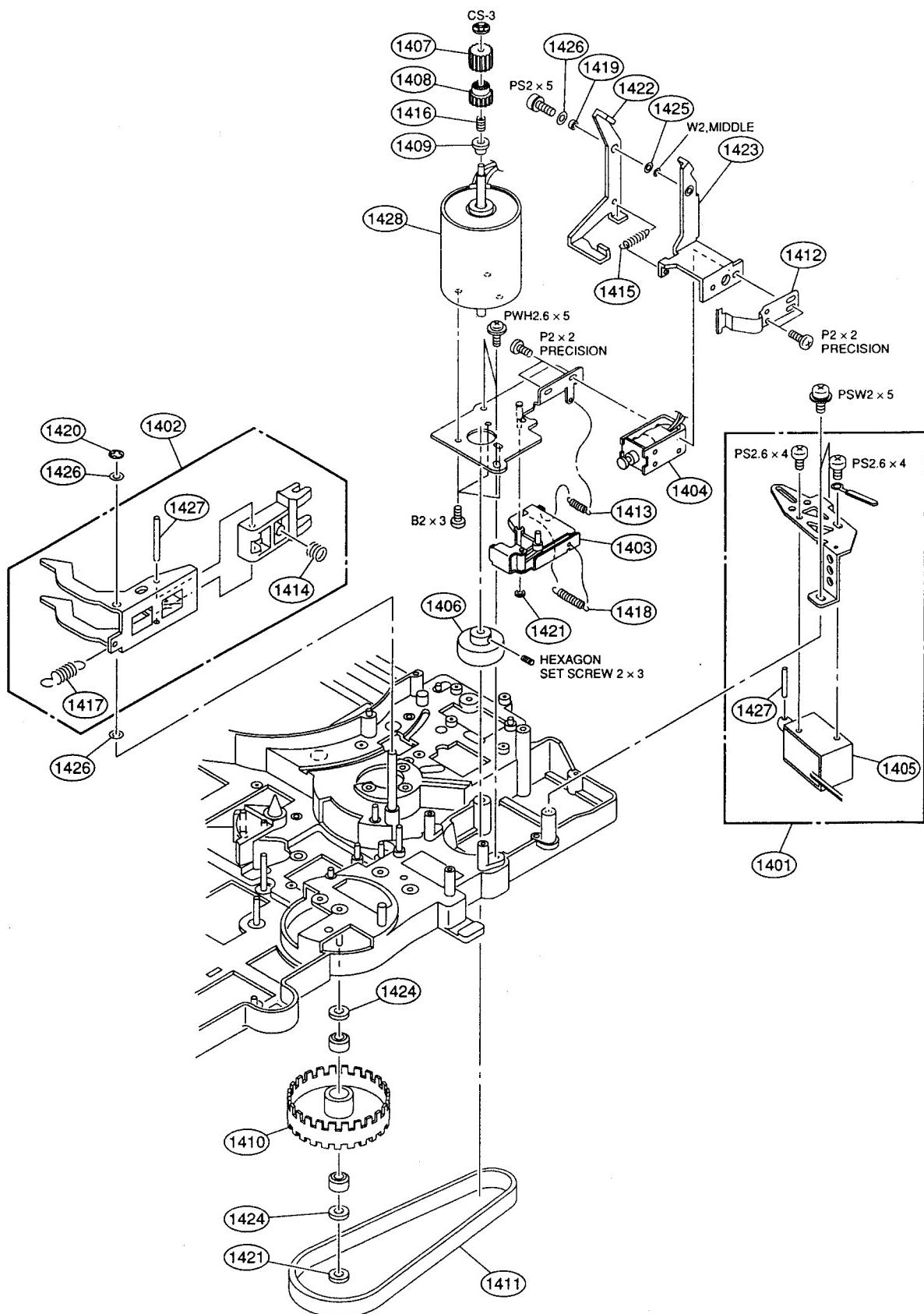


## T-SIDE REEL MOTOR AND PINCH PRESS BLOCK

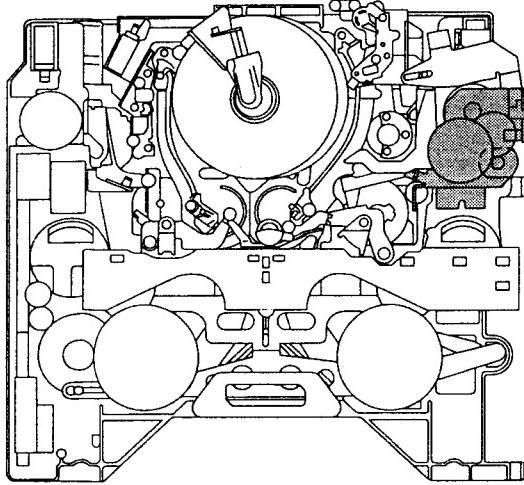


No.	Part No.	SP Description
1401	A-8278-216-A	o PLUNGER ASSY, PINCH PRESSING
1402	A-8278-217-B	o ARM ASSY, PINCH PRESSING
1403	X-3165-731-2	s ARM ASSY, BRAKE
1404	1-454-334-61	s SOLENOID, PLUNGER
1405	1-454-383-31	s SOLENOID, PLUNGER
1406	3-169-370-03	o PULLEY, MOTOR
1407	3-169-371-02	s PLATE, CLUTCH
1408	3-169-372-01	s GEAR, REEL MOTOR DRIVING
1409	3-169-373-01	s WASHER, SPRING
1410	3-169-503-03	s PULLEY (B), RELAY
1411	3-172-003-01	s BELT, DRIVING
1412	3-173-411-01	s SPRING, BRAKE PLATE
1413	3-307-374-00	s SPRING, TENSION
1414	3-345-408-01	s SPRING, COMPRESSION
1415	3-371-875-01	s SPRING (LOCK PLATE), TENSION
1416	3-637-331-00	s SPRING, COMPRESSION (L)
1417	3-639-371-00	s SPRING, TENSION
1418	3-642-482-00	s SPRING, TENSION
1419	3-657-841-61	o SPACER (2X1.6)
1420	3-669-596-01	s WASHER (2.3), STOPPER
1421	3-676-387-00	s POLY-SLIDER (DIA.1.6)
1422	3-691-564-01	o LEVER,BRAKE RELEASE
1423	3-691-565-01	o BASE,BRAKE RELEASE
1424	3-701-437-21	s WASHER
1425	3-701-439-01	s WASHER
1426	3-701-439-11	s WASHER
1427	3-703-358-08	l PIN, PARALLEL (DIA. 2X20)
1428	8-835-441-01	s MOTOR R432276751A

## T-SIDE REEL MOTOR AND PINCH PRESS BLOCK

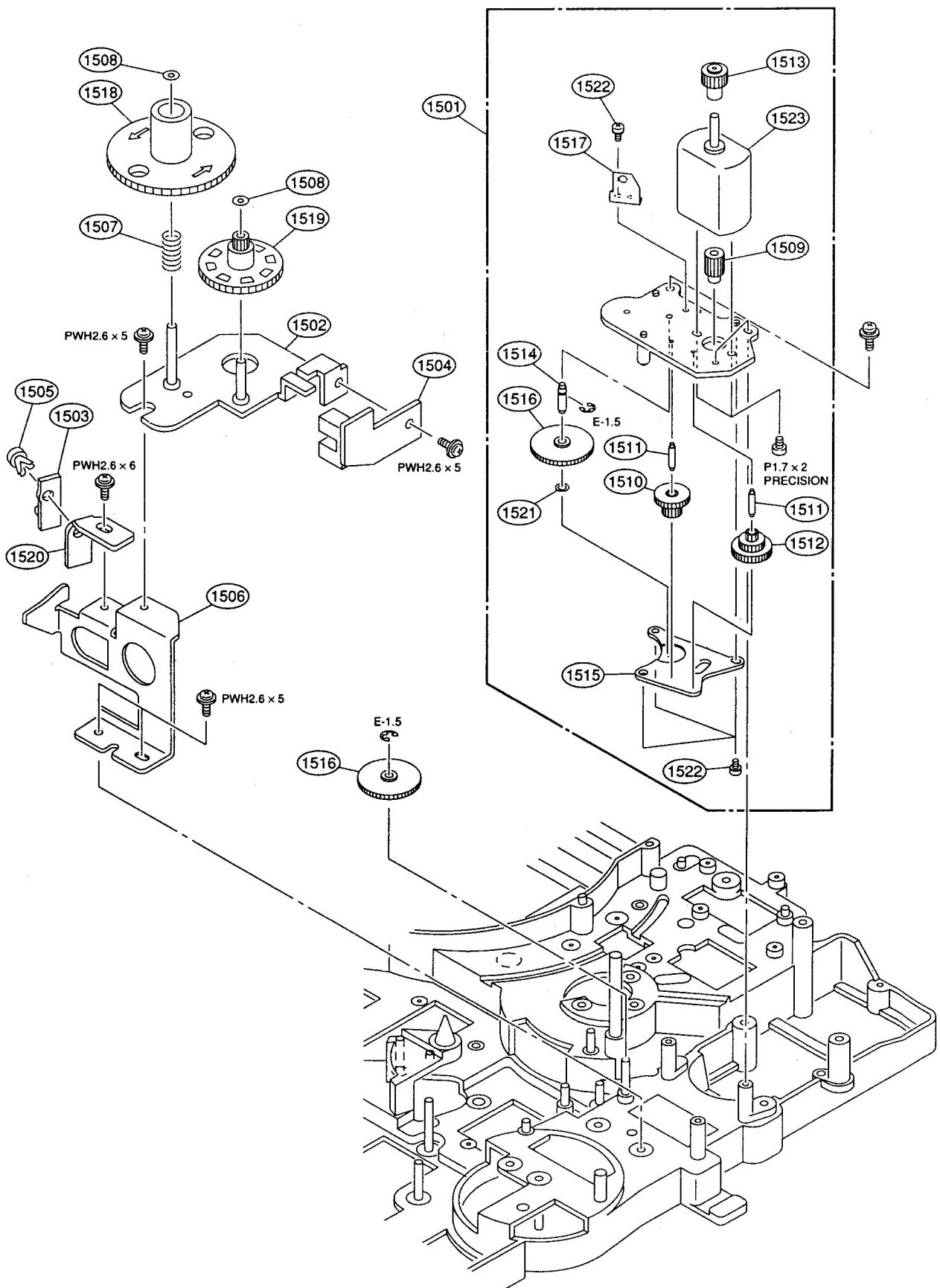


## THREADING MOTOR AND GEAR TRAIN

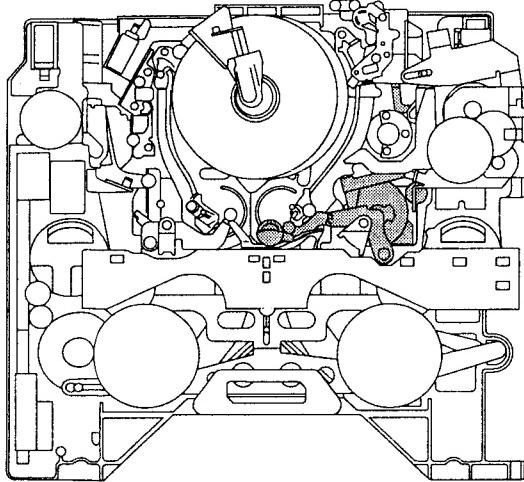


No.	Part No.	SP Description
1501	A-8269-450-A	o BLOCK ASSY, GEAR
1502	X-3678-385-1	o EJECT ASSY, MANUAL
1503	1-543-316-21	s HEAD, SENSING (SMALL TYPE)
1504	1-638-705-12	o PRINTED CIRCUIT BOARD, DET-15
1505	2-279-715-01	s RIVET, NYLON
1506	3-169-502-03	o PLATE, LID OPEN
1507	3-561-540-01	s SPRING, COMPRESSION
1508	3-669-465-01	s WASHER (1.5), STOPPER
1509	3-679-748-01	s PINION
1510	3-679-750-01	o GEAR(B)
1511	3-679-799-01	o SHAFT, GEAR
1512	3-680-263-01	o GEAR(C)
1513	3-680-988-01	s PINION B
1514	3-691-348-01	o GEAR SHAFT(A)
1515	3-691-349-01	o GEAR BLOCK PLATE(B)
1516	3-691-352-02	s GEAR, ST DRIVING
1517	3-691-353-01	o LIMITTER PLATE
1518	3-691-371-01	o GEAR, MIDWAY
1519	3-691-372-01	o DRIVING GEAR, MANUAL
1520	3-691-556-01	o HOLDER, TOP SENSOR
1521	3-701-437-21	s WASHER
1522	3-729-013-21	s SCREW(M1.4X2.5), WASHERHEAD(+P)
1523	8-835-440-01	s MOTOR DN20-Q7Z1B

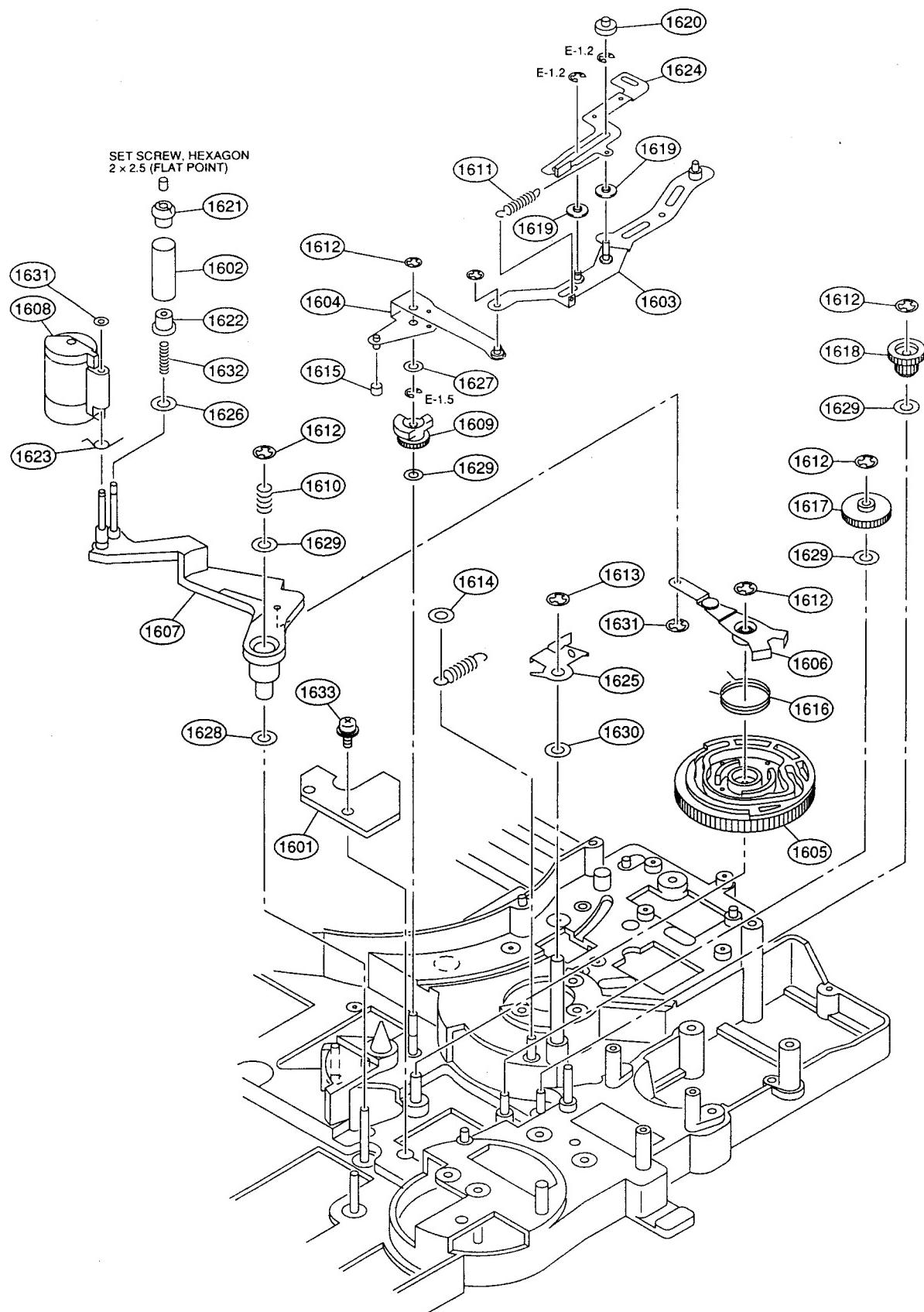
## **THREADING MOTOR AND GEAR TRAIN**



## CUE LINK AND PINCH ARM



No.	Part No.	SP Description
1601	A-8276-926-A	o MOUNTED CIRCUIT BOARD, DET-26
1602	X-3678-091-2	s ROLLER ASSY
1603	X-3678-382-1	o LINK ASSY,CUE DRIVING
1604	X-3678-383-1	o CUE DRIVING ARM ASSY (A)
1605	X-3678-384-1	o GEAR ASSY,CAM
1606	X-3678-423-2	o LINK ASSY,T
1607	X-3678-424-2	o SUB ASSY,T ARM
1608	X-3678-425-3	s ARM ASSY,PINCH ROLLER
1609	X-3678-461-1	s GEAR ASSY,INTERMITTENT
1610	2-618-901-00	s SPRING
1611	3-535-369-XX	s SPRING, TENSION
1612	3-669-465-01	s WASHER (1.5), STOPPER
1613	3-669-596-01	s WASHER (2.3), STOPPER
1614	3-672-250-01	s RING (M2.6), O
1615	3-683-340-01	o ROLLER A
1616	3-689-899-02	s SPRING,TORSION
1617	3-691-351-02	s GEAR, MIDWAY
1618	3-691-355-02	s GEAR,JOINT
1619	3-691-356-01	o C SLEEVE
1620	3-691-357-01	s C SLEEVE
1621	3-691-382-02	s FLANGE,UPPER
1622	3-691-383-02	s FLANGE,UNDER
1623	3-691-550-01	s SPRING,PINCH RETURN
1624	3-692-093-01	o LEVER,CUE CLEANER
1625	3-692-097-02	o LEVER STOPPER
1626	3-701-436-21	s WASHER, POLYEHTHYLENE
1627	3-701-437-01	s WASHER
1628	3-701-437-11	s WASHER
1629	3-701-437-21	s WASHER
1630	3-701-439-11	s WASHER
1631	3-726-829-01	l WASHER, STOPPER
1632	3-729-011-01	s SPRING, COMPRESSION
1633	3-729-013-21	s SCREW(M1.4X2.5),WASHERHEAD(+P)



### 5-3. Electrical Parts List

ADA-44 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8276-930-A	o MOUNTED CIRCUIT BOARD, ADA-44
C1	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C2	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C3	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C4	1-162-927-11	s CERAMIC, CHIP 100PF 5% 50V
C5	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C6	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C7	1-163-038-00	s CERAMIC 0.1uF 25V
C8	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C9	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C10	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C11	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C12	1-162-927-11	s CERAMIC, CHIP 100PF 5% 50V
C13	1-126-396-11	s ELECT, CHIP 47uF 20% 16V
C14	1-126-396-11	s ELECT, CHIP 47uF 20% 16V
C15	1-126-396-11	s ELECT, CHIP 47uF 20% 16V
C16	1-126-396-11	s ELECT, CHIP 47uF 20% 16V
C17	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V
C18	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V
C19	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V
C20	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V
C21	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C22	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C23	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C24	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C29	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C30	1-104-553-11	s FILM, CHIP 0.015uF 5% 16V
C31	1-104-553-11	s FILM, CHIP 0.015uF 5% 16V
C32	1-104-553-11	s FILM, CHIP 0.015uF 5% 16V
C33	1-104-553-11	s FILM, CHIP 0.015uF 5% 16V
C34-41	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C42-49	1-162-927-11	s CERAMIC, CHIP 100PF 5% 50V
C50	1-104-549-11	s FILM, CHIP 0.0068uF 5% 16V
C51	1-104-549-11	s FILM, CHIP 0.0068uF 5% 16V
C52	1-104-549-11	s FILM, CHIP 0.0068uF 5% 16V
C53	1-104-549-11	s FILM, CHIP 0.0068uF 5% 16V
C54	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V
C55	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V
C56	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V
C57	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V
C58	1-135-070-00	s TANTALUM, CHIP 0.1uF 10% 35V
C59	1-135-070-00	s TANTALUM, CHIP 0.1uF 10% 35V
C60	1-104-913-11	s TANTALUM, CHIP 10uF 20% 16V
C61	1-104-913-11	s TANTALUM, CHIP 10uF 20% 16V
C62	1-104-913-11	s TANTALUM, CHIP 10uF 20% 16V
C63	1-104-913-11	s TANTALUM, CHIP 10uF 20% 16V
C64-69	1-163-038-00	s CERAMIC 0.1uF 25V
C70	1-104-913-11	s TANTALUM, CHIP 10uF 20% 16V
C71	1-104-913-11	s TANTALUM, CHIP 10uF 20% 16V
C72	1-164-346-11	s CERAMIC 1uF 16V
C73	1-164-346-11	s CERAMIC 1uF 16V
C74	1-164-346-11	s CERAMIC 1uF 16V
C75	1-164-346-11	s CERAMIC 1uF 16V
C76	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C201	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C202	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V
C203	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V
C204	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V

(ADA-44 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C205	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V
C206	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C207	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C208	1-104-913-11	s TANTALUM, CHIP 10uF 20% 16V
C209	1-104-913-11	s TANTALUM, CHIP 10uF 20% 16V
C210	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V
C211	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V
C212	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V
C213	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V
C214	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C215	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C216	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C217	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C218	1-162-927-11	s CERAMIC, CHIP 100PF 5% 50V
C219	1-162-927-11	s CERAMIC, CHIP 100PF 5% 50V
C220	1-162-927-11	s CERAMIC, CHIP 100PF 5% 50V
C221	1-162-927-11	s CERAMIC, CHIP 100PF 5% 50V
C222	1-104-543-11	s FILM, CHIP 0.0022uF 5% 50V
C223	1-104-543-11	s FILM, CHIP 0.0022uF 5% 50V
C224	1-104-543-11	s FILM, CHIP 0.0022uF 5% 50V
C225	1-104-543-11	s FILM, CHIP 0.0022uF 5% 50V
C226	1-104-539-11	s FILM, CHIP 0.001uF 5% 50V
C227	1-104-539-11	s FILM, CHIP 0.001uF 5% 50V
C228	1-104-539-11	s FILM, CHIP 0.001uF 5% 50V
C229	1-104-539-11	s FILM, CHIP 0.001uF 5% 50V
C230-241	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C242	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V
C243	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V
C244	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V
C245	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V
C246	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C247	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C248	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C249	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C250	1-104-551-11	s FILM, CHIP 0.01uF 5% 16V
C251	1-104-551-11	s FILM, CHIP 0.01uF 5% 16V
C252	1-104-551-11	s FILM, CHIP 0.01uF 5% 16V
C253	1-104-551-11	s FILM, CHIP 0.01uF 5% 16V
C254	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C255	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C260	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C261	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C262	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V
C263	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V
C264	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V
C265	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V
C351	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C352	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C353	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V
C354-364	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C365	1-164-346-11	s CERAMIC 1uF 16V
C366	1-164-346-11	s CERAMIC 1uF 16V
C367	1-164-346-11	s CERAMIC 1uF 16V
C368	1-164-346-11	s CERAMIC 1uF 16V
C369-373	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C374	1-126-396-11	s ELECT, CHIP 47uF 20% 16V
C375	1-126-396-11	s ELECT, CHIP 47uF 20% 16V
C376	1-104-608-11	s ELECT, CHIP 33uF 20% 6.3V
C377	1-128-394-11	s ELECT 220uF 20% 10V

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Ref. No. or Q'ty	Part No.	SP Description
C378	1-128-394-11	s ELECT 220uF 20% 10V
C379	1-126-393-11	s ELECT, CHIP 33uF 20% 10V
C380	1-126-393-11	s ELECT, CHIP 33uF 20% 10V
C381	1-126-393-11	s ELECT, CHIP 33uF 20% 10V
C382	1-126-393-11	s ELECT, CHIP 33uF 20% 10V
C383	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C384	1-104-608-11	s ELECT, CHIP 33uF 20% 6.3V
C385-390	1-126-393-11	s ELECT, CHIP 33uF 20% 10V
CN551	1-565-884-11	o CONNECTOR 12P, MALE
CN552	1-568-521-11	o CONNECTOR 13P, MALE
CN553	1-565-882-11	o CONNECTOR, 10P, MALE
CN554	1-565-877-11	s CONNECTOR, PC BOARD 5P, MALE
CN555	1-565-882-11	o CONNECTOR, 10P, MALE
CN556	1-565-884-11	o CONNECTOR 12P, MALE
CN557	1-566-758-11	o CONNECTOR 3P, MALE
CN558	1-569-761-11	s CONNECTOR, BOARD TO BOATD 20P
CN559	1-565-878-11	s CONNECTOR 6P, MALE
D1	8-719-989-08	s DIODE RB717F
D2	8-719-989-08	s DIODE RB717F
D3	8-719-989-08	s DIODE RB717F
D4	8-719-989-08	s DIODE RB717F
D5	8-719-988-82	s DIODE RB715F
D6	8-719-988-82	s DIODE RB715F
D7	8-719-988-82	s DIODE RB715F
D8	8-719-988-82	s DIODE RB715F
D9	8-719-941-86	s DIODE DAN202U
D201	8-719-941-86	s DIODE DAN202U
D202	8-719-941-86	s DIODE DAN202U
D351	8-759-710-88	s IC NJM431U
D354	8-719-157-23	s DIODE RD4.7M-B
D355	8-719-157-23	s DIODE RD4.7M-B
D356	8-719-157-23	s DIODE RD4.7M-B
D357	8-719-157-36	s DIODE RD6.8M-B
D358	8-719-157-23	s DIODE RD4.7M-B
D359	8-719-157-36	s DIODE RD6.8M-B
D360	8-719-157-23	s DIODE RD4.7M-B
D361	8-719-157-36	s DIODE RD6.8M-B
D362	8-719-157-23	s DIODE RD4.7M-B
IC1-8	8-759-711-85	s IC NJM4580E-D(T2)
IC9	8-759-336-17	s IC AK5390-VS
IC10	8-759-336-17	s IC AK5390-VS
IC11	8-759-079-60	s IC TC74VHC32FS(EL)
IC12	8-759-079-66	s IC TC74VHC123AFS(EL)
IC201	8-759-079-61	s IC TC74VHC74FS(EL)
IC202	8-759-079-80	s IC TC74VHC175FS(EL)
IC203	8-759-170-85	s IC PCM69U-J-T1
IC204	8-759-170-85	s IC PCM69U-J-T1
IC205-210	8-759-711-85	s IC NJM4580E-D(T2)
IC310	8-759-711-58	s IC NJM78L05UA
IC351	8-759-701-01	s IC NJM2904M
IC352	8-759-702-02	s IC NJM062M
IC353	8-759-702-02	s IC NJM062M
IC354	8-759-079-60	s IC TC74VHC32FS(EL)
IC355	8-759-186-84	s IC TC74VHC86F
IC356	8-759-300-71	s IC HD14053BFP
IC357	8-759-009-06	s IC MC14052BF
IC358	8-759-009-06	s IC MC14052BF

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Ref. No. or Q'ty	Part No.	SP Description
IC359	8-759-702-02	s IC NJM062M
IC360	8-759-702-02	s IC NJM062M
IC361	8-759-702-02	s IC NJM062M
Q1	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q2	8-729-012-35	s TRANSISTOR 2SK711-BL
Q3	8-729-012-35	s TRANSISTOR 2SK711-BL
Q4	8-729-012-35	s TRANSISTOR 2SK711-BL
Q5	8-729-012-35	s TRANSISTOR 2SK711-BL
Q201	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q202	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q203	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q204	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q205	8-729-012-35	s TRANSISTOR 2SK711-BL
Q206	8-729-012-35	s TRANSISTOR 2SK711-BL
Q207	8-729-012-35	s TRANSISTOR 2SK711-BL
Q208	8-729-012-35	s TRANSISTOR 2SK711-BL
Q351	8-729-029-06	s TRANSISTOR DTC124EUA-T106
Q352	8-729-029-06	s TRANSISTOR DTC124EUA-T106
Q353	8-729-028-83	s TRANSISTOR DTA124EUA-T106
Q354	8-729-028-83	s TRANSISTOR DTA124EUA-T106
Q355	8-729-028-83	s TRANSISTOR DTA124EUA-T106
Q356	8-729-028-83	s TRANSISTOR DTA124EUA-T106
Q357	8-729-209-07	s TRANSISTOR 2SC4213-B
Q358	8-729-209-07	s TRANSISTOR 2SC4213-B
Q359	8-729-209-07	s TRANSISTOR 2SC4213-B
Q360	8-729-209-07	s TRANSISTOR 2SC4213-B
Q361	8-729-807-51	s TRANSISTOR 2SD1623-S
Q362	8-729-101-07	s TRANSISTOR 2SB798
Q364	8-729-807-87	s TRANSISTOR 2SB1295-UL6
Q365	8-729-809-47	s TRANSISTOR 2SD1935-CT7
Q366	8-729-807-87	s TRANSISTOR 2SB1295-UL6
Q367	8-729-809-47	s TRANSISTOR 2SD1935-CT7
Q368	8-729-101-07	s TRANSISTOR 2SB798
Q369	8-729-809-47	s TRANSISTOR 2SD1935-CT7
R5	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R6-13	1-208-801-11	s METAL, CHIP 6.2K 0.5% 1/10W
R14	1-218-720-11	s METAL, CHIP 15K 0.5% 1/16W
R15	1-218-729-11	s METAL, CHIP 36K 0.5% 1/16W
R16	1-218-867-11	s METAL, CHIP 6.8K 0.5% 1/16W
R17	1-218-867-11	s METAL, CHIP 6.8K 0.5% 1/16W
R18	1-218-867-11	s METAL, CHIP 6.8K 0.5% 1/16W
R19	1-218-867-11	s METAL, CHIP 6.8K 0.5% 1/16W
R20	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R21	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R22	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R23	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R24	1-218-867-11	s METAL, CHIP 6.8K 0.5% 1/16W
R25	1-218-867-11	s METAL, CHIP 6.8K 0.5% 1/16W
R26	1-218-867-11	s METAL, CHIP 6.8K 0.5% 1/16W
R27	1-218-867-11	s METAL, CHIP 6.8K 0.5% 1/16W
R28	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R32-36	1-216-864-11	s METAL, CHIP 0
R37	1-216-295-00	s RES, CHIP 0
R38	1-216-295-00	s RES, CHIP 0
R39	1-216-295-00	s RES, CHIP 0
R44	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W
R45	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W
R46	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W

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Ref. No. or Q'ty	Part No.	SP Description
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R47	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W
R48	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R49	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R50	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R51	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W

R56	1-218-704-11	s METAL, CHIP 3.3K 0.5% 1/16W
R57	1-218-704-11	s METAL, CHIP 3.3K 0.5% 1/16W
R58	1-218-704-11	s METAL, CHIP 3.3K 0.5% 1/16W
R59	1-218-704-11	s METAL, CHIP 3.3K 0.5% 1/16W
R64	1-218-870-11	s METAL, CHIP 9.1K 0.5% 1/16W

R65	1-218-901-11	s METAL, CHIP 180K 0.5% 1/16W
R66	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R67	1-218-901-11	s METAL, CHIP 180K 0.5% 1/16W
R68	1-218-707-11	s METAL, CHIP 4.3K 0.5% 1/16W
R69	1-218-870-11	s METAL, CHIP 9.1K 0.5% 1/16W

R70	1-218-901-11	s METAL, CHIP 180K 0.5% 1/16W
R71	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R72	1-218-901-11	s METAL, CHIP 180K 0.5% 1/16W
R73	1-218-707-11	s METAL, CHIP 4.3K 0.5% 1/16W
R74	1-218-870-11	s METAL, CHIP 9.1K 0.5% 1/16W

R75	1-218-901-11	s METAL, CHIP 180K 0.5% 1/16W
R76	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R77	1-218-901-11	s METAL, CHIP 180K 0.5% 1/16W
R78	1-218-707-11	s METAL, CHIP 4.3K 0.5% 1/16W
R79	1-218-870-11	s METAL, CHIP 9.1K 0.5% 1/16W

R80	1-218-901-11	s METAL, CHIP 180K 0.5% 1/16W
R81	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R82	1-218-901-11	s METAL, CHIP 180K 0.5% 1/16W
R83	1-218-707-11	s METAL, CHIP 4.3K 0.5% 1/16W
R88	1-218-708-11	s METAL, CHIP 4.7K 0.5% 1/16W

R89	1-218-708-11	s METAL, CHIP 4.7K 0.5% 1/16W
R90	1-218-708-11	s METAL, CHIP 4.7K 0.5% 1/16W
R91	1-218-708-11	s METAL, CHIP 4.7K 0.5% 1/16W
R92	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R93	1-216-833-11	s METAL, CHIP 10K 5% 1/16W

R94	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R95	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R96	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R97	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R98	1-216-857-11	s METAL, CHIP 1M 5% 1/16W

R99	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R100	1-216-851-11	s METAL, CHIP 330K 5% 1/16W
R101	1-216-851-11	s METAL, CHIP 330K 5% 1/16W
R102	1-216-851-11	s METAL, CHIP 330K 5% 1/16W
R103	1-216-851-11	s METAL, CHIP 330K 5% 1/16W

R104	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W
R105	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W
R106	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W
R107	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W
R108	1-216-857-11	s METAL, CHIP 1M 5% 1/16W

R109	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R110	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R111	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R112	1-218-704-11	s METAL, CHIP 3.3K 0.5% 1/16W
R113	1-216-813-11	s METAL, CHIP 220 5% 1/16W

R114	1-218-704-11	s METAL, CHIP 3.3K 0.5% 1/16W
R115	1-216-813-11	s METAL, CHIP 220 5% 1/16W
R116	1-218-704-11	s METAL, CHIP 3.3K 0.5% 1/16W
R117	1-216-813-11	s METAL, CHIP 220 5% 1/16W

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Ref. No. or Q'ty	Part No.	SP Description
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R118	1-218-704-11	s METAL, CHIP 3.3K 0.5% 1/16W
R119	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R120-124	1-218-889-11	s METAL, CHIP 56K 0.5% 1/16W
R125	1-218-704-11	s METAL, CHIP 3.3K 0.5% 1/16W
R126	1-218-889-11	s METAL, CHIP 56K 0.5% 1/16W

R127	1-218-704-11	s METAL, CHIP 3.3K 0.5% 1/16W
R128	1-218-889-11	s METAL, CHIP 56K 0.5% 1/16W
R129	1-218-704-11	s METAL, CHIP 3.3K 0.5% 1/16W
R130	1-218-889-11	s METAL, CHIP 56K 0.5% 1/16W
R131	1-218-704-11	s METAL, CHIP 3.3K 0.5% 1/16W

R132	1-218-866-11	s METAL, CHIP 6.2K 0.5% 1/16W
R134	1-218-866-11	s METAL, CHIP 6.2K 0.5% 1/16W
R136	1-218-866-11	s METAL, CHIP 6.2K 0.5% 1/16W
R138	1-218-866-11	s METAL, CHIP 6.2K 0.5% 1/16W
R140-147	1-211-991-11	s METAL, CHIP 82 0.5% 1/16W

R148	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R149	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R150	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R151	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R153	1-216-845-11	s METAL, CHIP 100K 5% 1/16W

R155	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R157	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R158	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R159	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R201-205	1-216-809-11	s METAL, CHIP 100 5% 1/16W

R206	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R207	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R208-222	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R223	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R224	1-216-097-00	s METAL, CHIP 100K 5% 1/10W

R225	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R226	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R227	1-216-830-11	s METAL, CHIP 5.6K 5% 1/16W
R228	1-216-830-11	s METAL, CHIP 5.6K 5% 1/16W
R229	1-216-830-11	s METAL, CHIP 5.6K 5% 1/16W

R230	1-216-830-11	s METAL, CHIP 5.6K 5% 1/16W
R231	1-216-851-11	s METAL, CHIP 330K 5% 1/16W
R232	1-216-851-11	s METAL, CHIP 330K 5% 1/16W
R233	1-216-851-11	s METAL, CHIP 330K 5% 1/16W
R234	1-216-851-11	s METAL, CHIP 330K 5% 1/16W

R235	1-216-699-11	s METAL, CHIP 2K 0.5% 1/16W
R236	1-216-699-11	s METAL, CHIP 2K 0.5% 1/16W
R237	1-216-699-11	s METAL, CHIP 2K 0.5% 1/16W
R238	1-216-699-11	s METAL, CHIP 2K 0.5% 1/16W
R239	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W

R240	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R241	1-216-830-11	s METAL, CHIP 5.6K 5% 1/16W
R242	1-216-830-11	s METAL, CHIP 5.6K 5% 1/16W
R243	1-218-704-11	s METAL, CHIP 3.3K 0.5% 1/16W
R244	1-218-704-11	s METAL, CHIP 3.3K 0.5% 1/16W

R245	1-218-704-11	s METAL, CHIP 3.3K 0.5% 1/16W
R246	1-218-704-11	s METAL, CHIP 3.3K 0.5% 1/16W
R247-254	1-218-851-11	s METAL, CHIP 1.5K 0.5% 1/16W
R255	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R256	1-216-833-11	s METAL, CHIP 10K 5% 1/16W

R257	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R258	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R259	1-216-666-11	s METAL, CHIP 4.3K 0.5% 1/10W
R260	1-216-666-11	s METAL, CHIP 4.3K 0.5% 1/10W

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Ref. No. or Q'ty	Part No.	SP Description	Ref. No. or Q'ty	Part No.	SP Description
R261	1-216-666-11	s METAL, CHIP 4.3K 0.5% 1/16W	R320	1-218-738-11	s METAL, CHIP 82K 0.5% 1/16W
R262	1-216-666-11	s METAL, CHIP 4.3K 0.5% 1/16W	R321	1-218-727-11	s METAL, CHIP 30K 0.5% 1/16W
R263	1-218-720-11	s METAL, CHIP 15K 0.5% 1/16W	R322	1-218-729-11	s METAL, CHIP 36K 0.5% 1/16W
R264	1-218-729-11	s METAL, CHIP 36K 0.5% 1/16W	R323-330	1-216-864-11	s METAL, CHIP 0
R265	1-218-720-11	s METAL, CHIP 15K 0.5% 1/16W	R331	1-216-001-00	s METAL, CHIP 10 5% 1/10W
R266	1-218-729-11	s METAL, CHIP 36K 0.5% 1/16W	R332-337	1-216-313-00	s METAL, CHIP 8.2 5% 1/10W
R267	1-218-720-11	s METAL, CHIP 15K 0.5% 1/16W	R351	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R268	1-218-729-11	s METAL, CHIP 36K 0.5% 1/16W	R352	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R269	1-218-720-11	s METAL, CHIP 15K 0.5% 1/16W	R353	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R270	1-218-729-11	s METAL, CHIP 36K 0.5% 1/16W	R354	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R271	1-216-830-11	s METAL, CHIP 5.6K 5% 1/16W	R355	1-218-708-11	s METAL, CHIP 4.7K 0.5% 1/16W
R272	1-216-821-11	s METAL, CHIP 1K 5% 1/16W	R356	1-218-708-11	s METAL, CHIP 4.7K 0.5% 1/16W
R273	1-216-830-11	s METAL, CHIP 5.6K 5% 1/16W	R357	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R274	1-216-821-11	s METAL, CHIP 1K 5% 1/16W	R358	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R275	1-216-830-11	s METAL, CHIP 5.6K 5% 1/16W	R359	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W
R276	1-216-821-11	s METAL, CHIP 1K 5% 1/16W	R360	1-218-706-11	s METAL, CHIP 3.9K 0.5% 1/16W
R277	1-216-830-11	s METAL, CHIP 5.6K 5% 1/16W	R361	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R278	1-216-821-11	s METAL, CHIP 1K 5% 1/16W	R362	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R279	1-216-844-11	s METAL, CHIP 82K 5% 1/16W	R363	1-218-724-11	s METAL, CHIP 22K 0.5% 1/16W
R280	1-216-844-11	s METAL, CHIP 82K 5% 1/16W	R364	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W
R281	1-216-844-11	s METAL, CHIP 82K 5% 1/16W	R365	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R282	1-216-844-11	s METAL, CHIP 82K 5% 1/16W	R366	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R283	1-218-722-11	s METAL, CHIP 18K 0.5% 1/16W	R367	1-218-881-11	s METAL, CHIP 27K 0.5% 1/16W
R284	1-218-845-11	s METAL, CHIP 820 0.5% 1/16W	R368	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W
R285	1-218-722-11	s METAL, CHIP 18K 0.5% 1/16W	R369	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R286	1-218-845-11	s METAL, CHIP 820 0.5% 1/16W	R370-377	1-218-724-11	s METAL, CHIP 22K 0.5% 1/16W
R287	1-218-722-11	s METAL, CHIP 18K 0.5% 1/16W	R378	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W
R288	1-218-845-11	s METAL, CHIP 820 0.5% 1/16W	R379	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W
R289	1-218-722-11	s METAL, CHIP 18K 0.5% 1/16W	R380	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W
R290	1-218-845-11	s METAL, CHIP 820 0.5% 1/16W	R381	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W
R291	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W	R382	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R292	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W	R383	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R293	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W	R384	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R294	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W	R385	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R295	1-216-121-00	s METAL, CHIP 1M 5% 1/10W	R386-397	1-218-724-11	s METAL, CHIP 22K 0.5% 1/16W
R296	1-216-121-00	s METAL, CHIP 1M 5% 1/10W	R398	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R297	1-216-121-00	s METAL, CHIP 1M 5% 1/10W	R399	1-218-724-11	s METAL, CHIP 22K 0.5% 1/16W
R298	1-216-121-00	s METAL, CHIP 1M 5% 1/10W	R400	1-218-724-11	s METAL, CHIP 22K 0.5% 1/16W
R299	1-218-707-11	s METAL, CHIP 4.3K 0.5% 1/16W	R401	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R300	1-218-707-11	s METAL, CHIP 4.3K 0.5% 1/16W	R402	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R301	1-218-707-11	s METAL, CHIP 4.3K 0.5% 1/16W	R403	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R302	1-218-707-11	s METAL, CHIP 4.3K 0.5% 1/16W	R404	1-216-864-11	s METAL, CHIP 0
R303	1-218-720-11	s METAL, CHIP 15K 0.5% 1/16W	R405	1-218-708-11	s METAL, CHIP 4.7K 0.5% 1/16W
R304	1-218-738-11	s METAL, CHIP 82K 0.5% 1/16W	R406	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R305	1-218-738-11	s METAL, CHIP 82K 0.5% 1/16W	R407	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R306	1-218-727-11	s METAL, CHIP 30K 0.5% 1/16W	R408	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R307	1-218-729-11	s METAL, CHIP 36K 0.5% 1/16W	R409	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R308	1-218-720-11	s METAL, CHIP 15K 0.5% 1/16W	R410	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R309	1-218-738-11	s METAL, CHIP 82K 0.5% 1/16W	R411	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R310	1-218-738-11	s METAL, CHIP 82K 0.5% 1/16W	R412	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R311	1-218-727-11	s METAL, CHIP 30K 0.5% 1/16W	R413	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R312	1-218-729-11	s METAL, CHIP 36K 0.5% 1/16W	R414	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R313	1-218-720-11	s METAL, CHIP 15K 0.5% 1/16W	R415	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R314	1-218-738-11	s METAL, CHIP 82K 0.5% 1/16W	R416	1-216-851-11	s METAL, CHIP 330K 5% 1/16W
R315	1-218-738-11	s METAL, CHIP 82K 0.5% 1/16W	R417	1-218-724-11	s METAL, CHIP 22K 0.5% 1/16W
R316	1-218-727-11	s METAL, CHIP 30K 0.5% 1/16W	R418	1-218-724-11	s METAL, CHIP 22K 0.5% 1/16W
R317	1-218-729-11	s METAL, CHIP 36K 0.5% 1/16W	R419	1-218-724-11	s METAL, CHIP 22K 0.5% 1/16W
R318	1-218-720-11	s METAL, CHIP 15K 0.5% 1/16W	R420	1-218-724-11	s METAL, CHIP 22K 0.5% 1/16W
R319	1-218-738-11	s METAL, CHIP 82K 0.5% 1/16W	R421	1-218-707-11	s METAL, CHIP 4.3K 0.5% 1/16W

## (ADA-44 BOARD)

Ref. No.  
or Q'ty Part No. SP Description

R422 1-218-704-11 s METAL, CHIP 3.3K 0.5% 1/16W  
 R423 1-218-704-11 s METAL, CHIP 3.3K 0.5% 1/16W  
 R424 1-218-704-11 s METAL, CHIP 3.3K 0.5% 1/16W  
 R425 1-218-704-11 s METAL, CHIP 3.3K 0.5% 1/16W  
 R426 1-218-725-11 s METAL, CHIP 24K 0.5% 1/16W  
 R427 1-216-857-11 s METAL, CHIP 1M 5% 1/16W  
 R428-433 1-216-809-11 s METAL, CHIP 100 5% 1/16W  
 R434 1-216-097-00 s METAL, CHIP 100K 5% 1/10W  
 R435 1-216-097-00 s METAL, CHIP 100K 5% 1/10W  
 R436 1-216-097-00 s METAL, CHIP 100K 5% 1/10W  
 R437 1-216-041-00 s METAL, CHIP 470 5% 1/10W  
 R438 1-216-817-11 s METAL, CHIP 470 5% 1/16W  
 R440-445 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R447-452 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W  
 R453 1-215-469-00 s METAL 100K 1% 1/6W  
 RV1 1-237-034-11 s RES, ADJ METAL 2K  
 RV2 1-237-034-11 s RES, ADJ METAL 2K  
 RV3 1-237-034-11 s RES, ADJ METAL 2K  
 RV4 1-237-034-11 s RES, ADJ METAL 2K  
 RV5 1-237-039-11 s RES, ADJ METAL 100K  
 RV6 1-237-039-11 s RES, ADJ METAL 100K  
 RV7 1-237-039-11 s RES, ADJ METAL 100K  
 RV8 1-237-039-11 s RES, ADJ METAL 100K  
 RV40 1-241-522-11 s RES, VAR CARBON 10K  
 RV50 1-241-522-11 s RES, VAR CARBON 10K  
 RV60 1-241-522-11 s RES, VAR CARBON 10K  
 RV70 1-241-522-11 s RES, VAR CARBON 10K  
 RV201 1-237-038-11 s RES, ADJ METAL 50K  
 RV202 1-237-038-11 s RES, ADJ METAL 50K  
 RV203 1-237-038-11 s RES, ADJ METAL 50K  
 RV204 1-237-038-11 s RES, ADJ METAL 50K  
 RV205 1-237-034-11 s RES, ADJ METAL 2K  
 RV206 1-237-034-11 s RES, ADJ METAL 2K  
 RV207 1-237-034-11 s RES, ADJ METAL 2K  
 RV208 1-237-034-11 s RES, ADJ METAL 2K  
 S1 1-554-355-00 s SWITCH, TOGGLE

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APR-20 BOARD

Ref. No.  
or Q'ty Part No. SP Description

1pc 1-658-297-11 o PRINTED CIRCUIT BOARD, APR-20  
 This board is included in DPR-62 board.

C1-14 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V

IC1 8-759-079-49 s IC TC74VHC04FS(EL)  
 IC2 8-759-079-61 s IC TC74VHC74FS(EL)  
 IC3 8-759-079-80 s IC TC74VHC175FS(EL)  
 IC4 8-759-079-80 s IC TC74VHC175FS(EL)  
 IC5 8-759-186-54 s IC TC74VHC164F  
 IC6 8-759-079-52 s IC TC74VHC08FS(EL)  
 IC7 8-759-079-52 s IC TC74VHC08FS(EL)  
 IC8 8-759-079-97 s IC TC74VHC374FS(EL)  
 IC9 8-759-079-46 s IC TC74VHC00FS(EL)  
 IC10 8-759-079-59 s IC TC74VHC27FS(EL)  
 IC11 8-759-079-74 s IC TC74VHC157FS(EL)  
 IC12 8-759-079-59 s IC TC74VHC27FS(EL)  
 IC13 8-759-079-60 s IC TC74VHC32FS(EL)  
 IC14 8-759-079-97 s IC TC74VHC374FS(EL)

R1-7 1-216-805-11 s METAL, CHIP 47 5% 1/16W

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CC-66 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8276-932-A	o MOUNTED CIRCUIT BOARD, CC-66
C4	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C5	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C6	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C7	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C8	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C9	1-135-212-21	s TANTALUM 2.2uF 10% 35V
C10	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C11	1-135-212-21	s TANTALUM 2.2uF 10% 35V
C12	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C13	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C14	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C15	1-135-177-21	s TANTALUM, CHIP 1uF 10% 25V
C16	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C17	1-135-177-21	s TANTALUM, CHIP 1uF 10% 25V
C18	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C19	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C20	1-135-177-21	s TANTALUM, CHIP 1uF 10% 25V
CN451	1-566-759-11	o CONNECTOR 4P, MALE
CN452	1-566-765-11	o CONNECTOR 10P, MALE
CN453	1-566-766-11	o CONNECTOR 11P, MALE
CN454	1-566-758-11	o CONNECTOR 3P, MALE
CN455	1-566-760-11	s CONNECTOR, ZR 5P, MALE
CN456	1-565-880-11	s CONNECTOR 8P, MALE
CN457	1-565-884-11	o CONNECTOR 12P, MALE
CN458	1-750-880-11	s CONNECTOR, COAXIAL, FEMALE
D4	8-719-037-95	s DIODE DA227TL
D5	8-719-037-95	s DIODE DA227TL
D6	8-719-941-09	s DIODE DAP202U
D7	8-719-941-04	s DIODE SB007-03CP
D8	8-719-941-04	s DIODE SB007-03CP
D9	8-719-941-09	s DIODE DAP202U
FB2	1-543-309-21	s BEAD, FERRITE
IC2	8-759-710-82	s IC NJM2406F
IC3	8-759-082-61	s IC TC4W53FU
IC4	8-759-710-82	s IC NJM2406F
IC5	8-759-234-77	s IC TC4S66F
IC6	8-759-030-16	s IC MC34182M
IC10	8-759-082-61	s IC TC4W53FU
Q1	8-729-117-31	s TRANSISTOR 2SC4177-L5
Q3	8-729-117-31	s TRANSISTOR 2SC4177-L5
Q4	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q6	8-729-117-31	s TRANSISTOR 2SC4177-L5
Q7	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q8	8-729-117-31	s TRANSISTOR 2SC4177-L5
Q9	8-729-117-31	s TRANSISTOR 2SC4177-L5
Q10	8-729-117-31	s TRANSISTOR 2SC4177-L5
R1	1-216-625-11	s METAL, CHIP 82 0.5% 1/10W
R2	1-216-801-11	s METAL, CHIP 22 5% 1/16W
R3	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R4	1-216-801-11	s METAL, CHIP 22 5% 1/16W
R5	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R7	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R8	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R9	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W

(CC-66 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R10	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R11	1-216-295-00	s RES, CHIP 0
R14	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R15	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R17	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R18	1-218-841-11	s METAL, CHIP 560 0.5% 1/16W
R19	1-218-837-11	s METAL, CHIP 390 0.5% 1/16W
R20	1-218-864-11	s METAL, CHIP 5.1K 0.5% 1/16W
R21	1-216-797-11	s METAL, CHIP 10 5% 1/16W
R22	1-216-831-11	s METAL, CHIP 6.8K 5% 1/16W
R23	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R24	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R25	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R26	1-216-295-00	s RES, CHIP 0
R27	1-216-295-00	s RES, CHIP 0
R28	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R29	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R30	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R31	1-211-991-11	s METAL, CHIP 82 0.5% 1/16W
R32	1-216-831-11	s METAL, CHIP 6.8K 5% 1/16W
R33	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R34	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R35	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R36	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R37	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R38	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R39	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R40	1-216-827-11	s METAL, CHIP 3.3K 5% 1/16W
R41	1-218-868-11	s METAL, CHIP 7.5K 0.5% 1/16W
R42	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R43	1-216-827-11	s METAL, CHIP 3.3K 5% 1/16W
R44	1-218-868-11	s METAL, CHIP 7.5K 0.5% 1/16W
R46	1-216-295-00	s RES, CHIP 0
RV1	1-241-521-11	s RES, VAR CARBON 5K
S1	1-570-835-11	s SWITCH, SLIDE
S2	1-570-863-11	s SWITCH, SLIDE
----- CON-18 BOARD -----		
Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8272-756-A	o MOUNTED CIRCUIT BOARD, CON-18
CN431	1-566-760-11	s CONNECTOR, ZR 5P, MALE

## CP-260/260J BOARD

Ref. No.  
or Q'ty Part No. SP Description

1pc	A-8276-934-A	o MOUNTED CIRCUIT BOARD, CP-260 [for UC,SY]
	A-8276-936-A	o MOUNTED CIRCUIT BOARD, CP-260J [for J]
C102	1-162-964-11	s CERAMIC, CHIP 0.001uF 10% 50V
C103	1-126-403-11	s ELECT, CHIP 3.3uF 20% 50V
C104	1-126-403-11	s ELECT, CHIP 3.3uF 20% 50V
C105	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C106	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C112	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C202	1-162-964-11	s CERAMIC, CHIP 0.001uF 10% 50V
C203	1-126-403-11	s ELECT, CHIP 3.3uF 20% 50V
C204	1-126-403-11	s ELECT, CHIP 3.3uF 20% 50V
C205	1-135-213-21	s TANTALUM 3.3uF 20% 25V
C206	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C207	1-135-213-21	s TANTALUM 3.3uF 20% 25V
C208	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C209	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C210	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C211	1-163-038-00	s CERAMIC 0.1uF 25V
C212	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C301	1-162-964-11	s CERAMIC, CHIP 0.001uF 10% 50V
C302	1-126-403-11	s ELECT, CHIP 3.3uF 20% 50V
C303	1-126-403-11	s ELECT, CHIP 3.3uF 20% 50V
C304	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C305	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C312	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C321	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C322	1-162-927-11	s CERAMIC, CHIP 100PF 5% 50V
C401	1-162-964-11	s CERAMIC, CHIP 0.001uF 10% 50V
C402	1-126-403-11	s ELECT, CHIP 3.3uF 20% 50V
C403	1-126-403-11	s ELECT, CHIP 3.3uF 20% 50V
C404	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C405	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C412	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C421	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C422	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C530	1-135-211-11	s TANTALUM, CHIP 6.8uF 20% 6.3V
C531	1-135-211-11	s TANTALUM, CHIP 6.8uF 20% 6.3V
C532	1-135-211-11	s TANTALUM, CHIP 6.8uF 20% 6.3V
C533	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V
C541	1-135-177-21	s TANTALUM, CHIP 1uF 10% 25V
C542	1-163-989-11	s CERAMIC, CHIP 0.033uF 10% 25V
C551	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V
C552	1-135-211-11	s TANTALUM, CHIP 6.8uF 20% 6.3V
C553	1-135-177-21	s TANTALUM, CHIP 1uF 10% 25V
C554	1-135-211-11	s TANTALUM, CHIP 6.8uF 20% 6.3V
C555	1-135-211-11	s TANTALUM, CHIP 6.8uF 20% 6.3V
C556	1-135-177-21	s TANTALUM, CHIP 1uF 10% 25V
C557	1-135-211-11	s TANTALUM, CHIP 6.8uF 20% 6.3V
C558	1-135-211-11	s TANTALUM, CHIP 6.8uF 20% 6.3V
C559	1-165-176-11	s CERAMIC 0.047uF 10% 16V
C560	1-128-397-21	s ELECT 100uF 20% 16V
C561	1-126-398-11	s ELECT, CHIP 4.7uF 20% 35V
C562	1-135-211-11	s TANTALUM, CHIP 6.8uF 20% 6.3V
C563	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C564	1-128-397-21	s ELECT 100uF 20% 16V
C565	1-135-211-11	s TANTALUM, CHIP 6.8uF 20% 6.3V
C566	1-135-211-11	s TANTALUM, CHIP 6.8uF 20% 6.3V

## (CP-260/260J BOARD)

Ref. No.  
or Q'ty Part No. SP Description

C567	1-135-211-11	s TANTALUM, CHIP 6.8uF 20% 6.3V
C568	1-163-038-00	s CERAMIC 0.1uF 25V
C569	1-126-402-11	s ELECT, CHIP 2.2uF 20% 50V
C570	1-126-402-11	s ELECT, CHIP 2.2uF 20% 50V
C571	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V
C602	1-128-393-11	s ELECT 100uF 20% 10V
C603	1-128-393-11	s ELECT 100uF 20% 10V
C604	1-128-394-11	s ELECT 220uF 20% 10V
C605	1-128-394-11	s ELECT 220uF 20% 10V
C606	1-162-974-11	s CERAMIC, CHIP 0.01uF 50V
C607	1-162-974-11	s CERAMIC, CHIP 0.01uF 50V
C611	1-162-915-11	s CERAMIC, CHIP 10PF 50V
C612	1-162-915-11	s CERAMIC, CHIP 10PF 50V
C613	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C614	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C615	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C616	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C704	1-128-394-11	s ELECT 220uF 20% 10V
C705	1-128-394-11	s ELECT 220uF 20% 10V
C706	1-162-974-11	s CERAMIC, CHIP 0.01uF 50V
C707	1-162-974-11	s CERAMIC, CHIP 0.01uF 50V
C711	1-163-227-11	s CERAMIC, CHIP 10PF 5% 50V
C712	1-163-227-11	s CERAMIC, CHIP 10PF 5% 50V
C715	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C716	1-162-927-11	s CERAMIC, CHIP 100PF 5% 50V
C802	1-128-393-11	s ELECT 100uF 20% 10V
C803	1-128-393-11	s ELECT 100uF 20% 10V
C804	1-128-394-11	s ELECT 220uF 20% 10V
C805	1-128-394-11	s ELECT 220uF 20% 10V
C806	1-162-974-11	s CERAMIC, CHIP 0.01uF 50V
C807	1-162-974-11	s CERAMIC, CHIP 0.01uF 50V
C811	1-163-227-11	s CERAMIC, CHIP 10PF 5% 50V
C812	1-163-227-11	s CERAMIC, CHIP 10PF 5% 50V
C813	1-163-038-00	s CERAMIC 0.1uF 25V
C814	1-163-038-00	s CERAMIC 0.1uF 25V
C816	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C817	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C904	1-128-394-11	s ELECT 220uF 20% 10V
C905	1-128-394-11	s ELECT 220uF 20% 10V
C906	1-162-974-11	s CERAMIC, CHIP 0.01uF 50V
C907	1-162-974-11	s CERAMIC, CHIP 0.01uF 50V
C911	1-163-227-11	s CERAMIC, CHIP 10PF 5% 50V
C912	1-163-227-11	s CERAMIC, CHIP 10PF 5% 50V
C916	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C917	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C1001	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C1002	1-163-038-00	s CERAMIC 0.1uF 25V
C1003	1-163-137-00	s CERAMIC, CHIP 680PF 5% 50V
C1004	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C1005	1-163-038-00	s CERAMIC 0.1uF 25V
C1024	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V [for UC,SY]
C1025	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C1027	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C1029	1-126-393-11	s ELECT, CHIP 33uF 20% 10V
C1031	1-126-393-11	s ELECT, CHIP 33uF 20% 10V
C1033	1-126-393-11	s ELECT, CHIP 33uF 20% 10V
C1035	1-126-393-11	s ELECT, CHIP 33uF 20% 10V
C1038	1-163-038-00	s CERAMIC 0.1uF 25V
C1040	1-163-038-00	s CERAMIC 0.1uF 25V

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Ref. No. or Q'ty	Part No.	SP Description
C1042	1-163-038-00 s	CERAMIC 0.1uF 25V
C1044	1-163-038-00 s	CERAMIC 0.1uF 25V
C1045	1-126-403-11 s	ELECT, CHIP 3.3uF 20% 50V [for UC,SY]
C1046	1-126-390-11 s	ELECT, CHIP 22uF 20% 6.3V
C1047	1-126-390-11 s	ELECT, CHIP 22uF 20% 6.3V
C1048	1-126-395-11 s	ELECT, CHIP 22uF 20% 16V
C1049	1-126-395-11 s	ELECT, CHIP 22uF 20% 16V
C2001	1-126-398-11 s	ELECT, CHIP 4.7uF 20% 35V
C2002	1-163-038-00 s	CERAMIC 0.1uF 25V
C2003	1-126-398-11 s	ELECT, CHIP 4.7uF 20% 35V
C2004	1-126-941-11 s	ELECT 470uF 20% 25V
C2005	1-126-394-11 s	ELECT, CHIP 10uF 20% 16V
C5001	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C5002	1-162-927-11 s	CERAMIC, CHIP 100PF 5% 50V
C5003	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C5004	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
CN401	1-566-767-11 o	CONNECTOR 12P, MALE
CN402	1-565-877-11 s	CONNECTOR, PC BOARD 5P, MALE
CN403	1-565-875-11 o	CONNECTOR 3P, MALE
CN404	1-565-875-11 o	CONNECTOR 3P, MALE
CN405	1-565-875-11 o	CONNECTOR 3P, MALE
CN406	1-565-875-11 o	CONNECTOR 3P, MALE
CN407	1-566-761-11 o	CONNECTOR 6P, MALE
CN408	1-566-758-11 o	CONNECTOR 3P, MALE
CN409	1-580-716-11 o	CONNECTOR 13P, MALE
CN410	1-566-767-11 o	CONNECTOR 12P, MALE
CN411	1-566-765-11 o	CONNECTOR 10P, MALE
CN412	1-580-716-11 o	CONNECTOR 13P, MALE
CN413	1-566-758-11 o	CONNECTOR 3P, MALE
CN414	1-565-875-11 o	CONNECTOR 3P, MALE
CN415	1-565-875-11 o	CONNECTOR 3P, MALE
CN416	1-565-875-11 o	CONNECTOR 3P, MALE
CN417	1-565-875-11 o	CONNECTOR 3P, MALE
CN421	1-566-759-11 o	CONNECTOR 4P, MALE
CN1009	1-537-142-11 s	TERMINAL
D101	8-719-941-23 s	DIODE DA204U
D102	8-719-941-23 s	DIODE DA204U
D201	8-719-941-23 s	DIODE DA204U
D202	8-719-941-23 s	DIODE DA204U
D301	8-719-941-23 s	DIODE DA204U
D302	8-719-941-23 s	DIODE DA204U
D401	8-719-941-23 s	DIODE DA204U
D402	8-719-941-23 s	DIODE DA204U
D601	8-719-941-86 s	DIODE DAN202U
D602	8-719-941-86 s	DIODE DAN202U
D801	8-719-941-86 s	DIODE DAN202U
D802	8-719-941-86 s	DIODE DAN202U
D1004	8-719-157-36 s	DIODE RD6.8M-B
D1005	8-719-157-23 s	DIODE RD4.7M-B
D1006	8-719-157-36 s	DIODE RD6.8M-B
D1007	8-719-157-23 s	DIODE RD4.7M-B
D1008	8-719-157-23 s	DIODE RD4.7M-B
D1009	8-719-157-36 s	DIODE RD6.8M-B
D1010	8-719-157-23 s	DIODE RD4.7M-B
D1011	8-719-157-23 s	DIODE RD4.7M-B
D1012	8-719-157-36 s	DIODE RD6.8M-B
D1013	8-719-157-23 s	DIODE RD4.7M-B

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Ref. No. or Q'ty	Part No.	SP Description
D1014	8-719-157-23 s	DIODE RD4.7M-B
D1015	8-719-157-36 s	DIODE RD6.8M-B
D1016	8-719-157-23 s	DIODE RD4.7M-B
IC101	8-759-711-85 s	IC NJM4580E-D(T2)
IC201	8-759-711-85 s	IC NJM4580E-D(T2)
IC202	8-759-711-85 s	IC NJM4580E-D(T2)
IC301	8-759-711-85 s	IC NJM4580E-D(T2)
IC401	8-759-711-85 s	IC NJM4580E-D(T2)
IC551	8-759-702-03 s	IC NJM072BM
IC552	8-759-701-36 s	IC NJM3403AM
IC553	8-759-512-09 s	IC NJM386BM
IC554	8-759-512-09 s	IC NJM386BM
IC601	8-759-700-96 s	IC NJM5534M
IC602	8-759-711-85 s	IC NJM4580E-D(T2)
IC603	8-759-700-96 s	IC NJM5534M
IC701	8-759-700-96 s	IC NJM5534M
IC703	8-759-700-96 s	IC NJM5534M
IC801	8-759-700-96 s	IC NJM5534M
IC802	8-759-711-85 s	IC NJM4580E-D(T2)
IC803	8-759-700-96 s	IC NJM5534M
IC901	8-759-700-96 s	IC NJM5534M
IC903	8-759-700-96 s	IC NJM5534M
IC1001	8-759-079-49 s	IC TC74VHC04FS(EL)
IC1004	8-759-079-78 s	IC TC74VHC165FS(EL)
IC1007	8-759-234-20 s	IC TC7S08F
IC2001	8-759-937-54 s	IC S-81250HG-RD-S
L101	1-410-380-31 s	INDUCTOR, CHIP 8.2uH
L102	1-410-380-31 s	INDUCTOR, CHIP 8.2uH
L201	1-410-380-31 s	INDUCTOR, CHIP 8.2uH
L202	1-410-380-31 s	INDUCTOR, CHIP 8.2uH
L203	1-410-380-31 s	INDUCTOR, CHIP 8.2uH
L204	1-410-380-31 s	INDUCTOR, CHIP 8.2uH
L301	1-410-380-31 s	INDUCTOR, CHIP 8.2uH
L302	1-410-380-31 s	INDUCTOR, CHIP 8.2uH
L401	1-410-380-31 s	INDUCTOR, CHIP 8.2uH
L402	1-410-380-31 s	INDUCTOR, CHIP 8.2uH
L1001	1-410-371-41 s	INDUCTOR CHIP 1.5uH
Q551	8-729-209-07 s	TRANSISTOR 2SC4213-B
Q601	8-729-209-07 s	TRANSISTOR 2SC4213-B
Q602	8-729-209-07 s	TRANSISTOR 2SC4213-B
Q701	8-729-209-07 s	TRANSISTOR 2SC4213-B
Q702	8-729-209-07 s	TRANSISTOR 2SC4213-B
Q801	8-729-209-07 s	TRANSISTOR 2SC4213-B
Q802	8-729-209-07 s	TRANSISTOR 2SC4213-B
Q901	8-729-209-07 s	TRANSISTOR 2SC4213-B
Q902	8-729-209-07 s	TRANSISTOR 2SC4213-B
Q1001	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q1002	8-729-101-07 s	TRANSISTOR 2SB798
Q1003	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6 [for UC,SY]
Q1005	8-729-029-14 s	TRANSISTOR DTC144EUA-T106 [for UC,SY]
Q1006	8-729-807-87 s	TRANSISTOR 2SB1295-UL6
Q1007	8-729-809-47 s	TRANSISTOR 2SD1935-CT7
Q1008	8-729-807-87 s	TRANSISTOR 2SB1295-UL6
Q1009	8-729-809-47 s	TRANSISTOR 2SD1935-CT7
Q1010	8-729-807-87 s	TRANSISTOR 2SB1295-UL6
Q1011	8-729-809-47 s	TRANSISTOR 2SD1935-CT7

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Ref. No. or Q'ty	Part No.	SP Description
Q1012	8-729-807-87	s TRANSISTOR 2SB1295-UL6
Q1013	8-729-809-47	s TRANSISTOR 2SD1935-CT7
Q1014	8-729-807-87	s TRANSISTOR 2SB1295-UL6
Q1015	8-729-809-47	s TRANSISTOR 2SD1935-CT7
Q1016	8-729-117-31	s TRANSISTOR 2SC4177-L5 [for UC,SY]
Q1017	8-729-809-47	s TRANSISTOR 2SD1935-CT7
Q1018	8-729-807-87	s TRANSISTOR 2SB1295-UL6
Q1019	8-729-809-47	s TRANSISTOR 2SD1935-CT7
Q1020	8-729-807-87	s TRANSISTOR 2SB1295-UL6
Q2001	8-729-807-51	s TRANSISTOR 2SD1623-S
Q2002	8-729-029-06	s TRANSISTOR DTC124EUA-T106
Q2003	8-729-028-83	s TRANSISTOR DTA124EUA-T106
Q2004	8-729-029-06	s TRANSISTOR DTC124EUA-T106
Q2005	8-729-028-83	s TRANSISTOR DTA124EUA-T106
R102	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R103	1-211-990-11	s METAL, CHIP 75 0.5% 1/16W
R104	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W
R105	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W
R108	1-218-844-11	s METAL, CHIP 750 0.5% 1/16W
R109	1-218-844-11	s METAL, CHIP 750 0.5% 1/16W
R111	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R112	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R114	1-218-883-11	s METAL, CHIP 33K 0.5% 1/16W
R115	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R116	1-218-704-11	s METAL, CHIP 3.3K 0.5% 1/16W
R117	1-218-663-11	s METAL, CHIP 62 0.5% 1/16W
R118	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R119	1-211-969-11	s METAL, CHIP 10 0.5% 1/16W
R120	1-216-295-00	s RES, CHIP 0
R127	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R131	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W
R132	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W
R133	1-208-812-11	s METAL, CHIP 18K 0.5% 1/10W
R134	1-211-990-11	s METAL, CHIP 75 0.5% 1/16W
R135	1-208-812-11	s METAL, CHIP 18K 0.5% 1/10W
R136	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W
R137	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W
R140	1-218-840-11	s METAL, CHIP 510 0.5% 1/16W
R141	1-218-710-11	s METAL, CHIP 5.6K 0.5% 1/16W
R142	1-218-838-11	s METAL, CHIP 430 0.5% 1/16W
R143	1-218-720-11	s METAL, CHIP 15K 0.5% 1/16W
R144	1-218-710-11	s METAL, CHIP 5.6K 0.5% 1/16W
R145	1-218-840-11	s METAL, CHIP 510 0.5% 1/16W
R146	1-218-720-11	s METAL, CHIP 15K 0.5% 1/16W
R147	1-218-838-11	s METAL, CHIP 430 0.5% 1/16W
R148	1-216-673-11	s METAL, CHIP 8.2K 0.5% 1/10W
R153	1-218-720-11	s METAL, CHIP 15K 0.5% 1/16W
R154	1-216-864-11	s METAL, CHIP 0
R155	1-218-720-11	s METAL, CHIP 15K 0.5% 1/16W
R156	1-216-864-11	s METAL, CHIP 0
R202	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R203	1-211-990-11	s METAL, CHIP 75 0.5% 1/16W
R204	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W
R205	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W
R208	1-218-844-11	s METAL, CHIP 750 0.5% 1/16W
R209	1-218-844-11	s METAL, CHIP 750 0.5% 1/16W
R211	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R212	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R214	1-218-883-11	s METAL, CHIP 33K 0.5% 1/16W

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Ref. No. or Q'ty	Part No.	SP Description
R215	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R216	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R217	1-218-663-11	s METAL, CHIP 62 0.5% 1/16W
R218	1-211-969-11	s METAL, CHIP 10 0.5% 1/16W
R219	1-211-969-11	s METAL, CHIP 10 0.5% 1/16W
R220	1-216-864-11	s METAL, CHIP 0
R221	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
R222	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R223	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R224	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R225	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R227	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R231	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W
R232	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W
R233	1-208-812-11	s METAL, CHIP 18K 0.5% 1/10W
R234	1-211-990-11	s METAL, CHIP 75 0.5% 1/16W
R235	1-208-812-11	s METAL, CHIP 18K 0.5% 1/10W
R236	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W
R237	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W
R240	1-218-840-11	s METAL, CHIP 510 0.5% 1/16W
R241	1-218-710-11	s METAL, CHIP 5.6K 0.5% 1/16W
R242	1-218-838-11	s METAL, CHIP 430 0.5% 1/16W
R243	1-218-720-11	s METAL, CHIP 15K 0.5% 1/16W
R244	1-218-710-11	s METAL, CHIP 5.6K 0.5% 1/16W
R245	1-218-840-11	s METAL, CHIP 510 0.5% 1/16W
R246	1-218-720-11	s METAL, CHIP 15K 0.5% 1/16W
R247	1-218-838-11	s METAL, CHIP 430 0.5% 1/16W
R248	1-216-673-11	s METAL, CHIP 8.2K 0.5% 1/10W
R253	1-218-720-11	s METAL, CHIP 15K 0.5% 1/16W
R254	1-216-864-11	s METAL, CHIP 0
R255	1-218-720-11	s METAL, CHIP 15K 0.5% 1/16W
R256	1-216-864-11	s METAL, CHIP 0
R301	1-211-990-11	s METAL, CHIP 75 0.5% 1/16W
R302	1-211-990-11	s METAL, CHIP 75 0.5% 1/16W
R303	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W
R304	1-218-844-11	s METAL, CHIP 750 0.5% 1/16W
R305	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W
R306	1-218-844-11	s METAL, CHIP 750 0.5% 1/16W
R308	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R309	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R310	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R311	1-218-883-11	s METAL, CHIP 33K 0.5% 1/16W
R312	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R313	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R314	1-216-622-11	s METAL, CHIP 62 0.5% 1/10W
R315	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R316	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R317	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R320	1-218-840-11	s METAL, CHIP 510 0.5% 1/16W
R321	1-218-710-11	s METAL, CHIP 5.6K 0.5% 1/16W
R322	1-218-838-11	s METAL, CHIP 430 0.5% 1/16W
R323	1-218-720-11	s METAL, CHIP 15K 0.5% 1/16W
R324	1-218-710-11	s METAL, CHIP 5.6K 0.5% 1/16W
R325	1-218-840-11	s METAL, CHIP 510 0.5% 1/16W
R326	1-218-720-11	s METAL, CHIP 15K 0.5% 1/16W
R327	1-218-838-11	s METAL, CHIP 430 0.5% 1/16W
R328	1-216-673-11	s METAL, CHIP 8.2K 0.5% 1/10W
R330	1-216-864-11	s METAL, CHIP 0
R331	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W

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Ref. No. or Q'ty	Part No.	SP Description	Ref. No. or Q'ty	Part No.	SP Description
R332	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W	R556	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R333	1-208-812-11	s METAL, CHIP 18K 0.5% 1/10W	R558	1-216-864-11	s METAL, CHIP 0
R334	1-218-720-11	s METAL, CHIP 15K 0.5% 1/16W	R561	1-216-662-11	s METAL, CHIP 3K 0.5% 1/10W
R335	1-208-812-11	s METAL, CHIP 18K 0.5% 1/10W	R562	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R336	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W	R563	1-216-662-11	s METAL, CHIP 3K 0.5% 1/10W
R337	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W	R564	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R338	1-218-720-11	s METAL, CHIP 15K 0.5% 1/16W	R567-574	1-216-864-11	s METAL, CHIP 0
R354	1-216-864-11	s METAL, CHIP 0	R575	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W
R356	1-216-864-11	s METAL, CHIP 0	R576	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W
R401	1-211-990-11	s METAL, CHIP 75 0.5% 1/16W	R577	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R402	1-211-990-11	s METAL, CHIP 75 0.5% 1/16W	R578	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R403	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W	R579	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R404	1-218-844-11	s METAL, CHIP 750 0.5% 1/16W	R580	1-218-756-11	s METAL, CHIP 150K 0.5% 1/10W
R405	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W	R581	1-208-823-11	s METAL, CHIP 51K 0.5% 1/10W
R406	1-218-844-11	s METAL, CHIP 750 0.5% 1/16W	R582	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R408	1-216-097-00	s METAL, CHIP 100K 5% 1/10W	R583	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R409	1-216-097-00	s METAL, CHIP 100K 5% 1/10W	R584	1-218-708-11	s METAL, CHIP 4.7K 0.5% 1/16W
R410	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W	R585	1-218-756-11	s METAL, CHIP 150K 0.5% 1/10W
R411	1-218-883-11	s METAL, CHIP 33K 0.5% 1/16W	R586	1-218-733-11	s METAL, CHIP 51K 0.5% 1/16W
R412	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W	R588	1-216-797-11	s METAL, CHIP 10 5% 1/16W
R413	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W	R589	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R414	1-218-663-11	s METAL, CHIP 62 0.5% 1/16W	R591	1-216-001-00	s METAL, CHIP 10 5% 1/10W
R415	1-211-969-11	s METAL, CHIP 10 0.5% 1/16W	R592	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R416	1-211-969-11	s METAL, CHIP 10 0.5% 1/16W	R593	1-208-800-11	s METAL, CHIP 5.6K 0.5% 1/10W
R417	1-211-990-11	s METAL, CHIP 75 0.5% 1/16W	R594	1-208-800-11	s METAL, CHIP 5.6K 0.5% 1/10W
R420	1-218-840-11	s METAL, CHIP 510 0.5% 1/16W	R595	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R421	1-218-710-11	s METAL, CHIP 5.6K 0.5% 1/16W	R596	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R422	1-218-838-11	s METAL, CHIP 430 0.5% 1/16W	R597	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R423	1-218-720-11	s METAL, CHIP 15K 0.5% 1/16W	R598	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R424	1-218-710-11	s METAL, CHIP 5.6K 0.5% 1/16W	R603	1-218-700-11	s METAL, CHIP 2.2K 0.5% 1/16W
R425	1-218-840-11	s METAL, CHIP 510 0.5% 1/16W	R604	1-218-700-11	s METAL, CHIP 2.2K 0.5% 1/16W
R426	1-218-720-11	s METAL, CHIP 15K 0.5% 1/16W	R605	1-218-868-11	s METAL, CHIP 7.5K 0.5% 1/16W
R427	1-218-838-11	s METAL, CHIP 430 0.5% 1/16W	R606	1-218-700-11	s METAL, CHIP 2.2K 0.5% 1/16W
R428	1-216-673-11	s METAL, CHIP 8.2K 0.5% 1/10W	R607	1-218-868-11	s METAL, CHIP 7.5K 0.5% 1/16W
R430	1-216-864-11	s METAL, CHIP 0	R608	1-218-700-11	s METAL, CHIP 2.2K 0.5% 1/16W
R431	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W	R609	1-218-672-11	s METAL, CHIP 150 0.5% 1/16W
R432	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W	R610	1-218-677-11	s METAL, CHIP 240 0.5% 1/16W
R433	1-208-812-11	s METAL, CHIP 18K 0.5% 1/10W	R611	1-218-868-11	s METAL, CHIP 7.5K 0.5% 1/16W
R434	1-218-720-11	s METAL, CHIP 15K 0.5% 1/16W	R612	1-218-868-11	s METAL, CHIP 7.5K 0.5% 1/16W
R435	1-208-812-11	s METAL, CHIP 18K 0.5% 1/10W	R613	1-216-803-11	s METAL, CHIP 33 5% 1/16W
R436	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W	R614	1-216-803-11	s METAL, CHIP 33 5% 1/16W
R437	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W	R615	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R438	1-218-720-11	s METAL, CHIP 15K 0.5% 1/16W	R616	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R454	1-216-864-11	s METAL, CHIP 0	R617	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R456	1-216-864-11	s METAL, CHIP 0	R619	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R530	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W	R620	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R531	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W	R621	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R532	1-216-089-00	s METAL, CHIP 47K 5% 1/10W	R622	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R533	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W	R625	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R534	1-216-821-11	s METAL, CHIP 1K 5% 1/16W	R630	1-208-774-11	s METAL, CHIP 470 0.5% 1/10W
R541	1-216-073-00	s METAL, CHIP 10K 5% 1/10W	R632	1-218-836-11	s METAL, CHIP 360 0.5% 1/16W
R542	1-216-295-00	s RES, CHIP 0	R633	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W
R545	1-216-295-00	s RES, CHIP 0	R634	1-216-611-11	s METAL, CHIP 22 0.5% 1/10W
R548	1-216-864-11	s METAL, CHIP 0	R703	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R551	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W	R704	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R552	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W	R705	1-208-803-11	s METAL, CHIP 7.5K 0.5% 1/10W
R553	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W	R706	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R554	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W	R707	1-208-803-11	s METAL, CHIP 7.5K 0.5% 1/10W
R555	1-216-849-11	s METAL, CHIP 220K 5% 1/16W	R708	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W

(CP-260/260J BOARD)

Ref. No.  
or Q'ty Part No. SP Description

R709 1-216-631-11 s METAL, CHIP 150 0.5% 1/10W  
 R710 1-208-767-11 s METAL, CHIP 240 0.5% 1/10W  
 R711 1-208-803-11 s METAL, CHIP 7.5K 0.5% 1/10W  
 R712 1-208-803-11 s METAL, CHIP 7.5K 0.5% 1/10W  
 R713 1-216-013-00 s METAL, CHIP 33 5% 1/10W  
 R714 1-216-013-00 s METAL, CHIP 33 5% 1/10W  
 R715 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R716 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R717 1-216-067-00 s METAL, CHIP 5.6K 5% 1/10W  
 R718 1-216-067-00 s METAL, CHIP 5.6K 5% 1/10W  
 R720 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W  
 R721 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W  
 R722 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W  
 R725 1-218-708-11 s METAL, CHIP 4.7K 0.5% 1/16W  
 R730 1-218-684-11 s METAL, CHIP 470 0.5% 1/16W  
 R732 1-218-836-11 s METAL, CHIP 360 0.5% 1/16W  
 R733 1-218-692-11 s METAL, CHIP 1K 0.5% 1/16W  
 R734 1-211-977-11 s METAL, CHIP 22 0.5% 1/16W  
 R803 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W  
 R804 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W  
 R805 1-208-803-11 s METAL, CHIP 7.5K 0.5% 1/10W  
 R806 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W  
 R807 1-208-803-11 s METAL, CHIP 7.5K 0.5% 1/10W  
 R808 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W  
 R809 1-216-631-11 s METAL, CHIP 150 0.5% 1/10W  
 R810 1-208-767-11 s METAL, CHIP 240 0.5% 1/10W  
 R811 1-208-803-11 s METAL, CHIP 7.5K 0.5% 1/10W  
 R812 1-208-803-11 s METAL, CHIP 7.5K 0.5% 1/10W  
 R813 1-216-013-00 s METAL, CHIP 33 5% 1/10W  
 R814 1-216-803-11 s METAL, CHIP 33 5% 1/16W  
 R815 1-216-833-11 s METAL, CHIP 10K 5% 1/16W  
 R816 1-216-833-11 s METAL, CHIP 10K 5% 1/16W  
 R817 1-216-067-00 s METAL, CHIP 5.6K 5% 1/10W  
 R818 1-216-067-00 s METAL, CHIP 5.6K 5% 1/10W  
 R820 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W  
 R821 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W  
 R822 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W  
 R825 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W  
 R830 1-208-774-11 s METAL, CHIP 470 0.5% 1/10W  
 R832 1-208-771-11 s METAL, CHIP 360 0.5% 1/10W  
 R833 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W  
 R834 1-216-611-11 s METAL, CHIP 22 0.5% 1/10W  
 R903 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W  
 R904 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W  
 R905 1-208-803-11 s METAL, CHIP 7.5K 0.5% 1/10W  
 R906 1-218-700-11 s METAL, CHIP 2.2K 0.5% 1/16W  
 R907 1-208-803-11 s METAL, CHIP 7.5K 0.5% 1/10W  
 R908 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W  
 R909 1-216-631-11 s METAL, CHIP 150 0.5% 1/10W  
 R910 1-208-767-11 s METAL, CHIP 240 0.5% 1/10W  
 R911 1-208-803-11 s METAL, CHIP 7.5K 0.5% 1/10W  
 R912 1-208-803-11 s METAL, CHIP 7.5K 0.5% 1/10W  
 R913 1-216-013-00 s METAL, CHIP 33 5% 1/10W  
 R914 1-216-013-00 s METAL, CHIP 33 5% 1/10W  
 R915 1-216-833-11 s METAL, CHIP 10K 5% 1/16W  
 R916 1-216-833-11 s METAL, CHIP 10K 5% 1/16W  
 R917 1-216-067-00 s METAL, CHIP 5.6K 5% 1/10W  
 R918 1-216-067-00 s METAL, CHIP 5.6K 5% 1/10W  
 R920 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W

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Ref. No.  
or Q'ty Part No. SP Description

R921 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W  
 R922 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W  
 R925 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W  
 R930 1-208-774-11 s METAL, CHIP 470 0.5% 1/10W  
 R932 1-208-771-11 s METAL, CHIP 360 0.5% 1/10W  
 R933 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W  
 R934 1-216-611-11 s METAL, CHIP 22 0.5% 1/10W  
 R1001 1-216-789-11 s METAL, CHIP 2.2 5% 1/16W  
 R1002 1-216-821-11 s METAL, CHIP 1K 5% 1/16W  
 R1003 1-216-835-11 s METAL, CHIP 15K 5% 1/16W  
 R1004 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R1005 1-216-097-00 s METAL, CHIP 100K 5% 1/10W  
 R1006 1-216-097-00 s METAL, CHIP 100K 5% 1/10W  
 R1007 1-216-097-00 s METAL, CHIP 100K 5% 1/10W  
 R1008 1-216-097-00 s METAL, CHIP 100K 5% 1/10W  
 R1014 1-216-864-11 s METAL, CHIP 0  
 R1015 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W  
 [for UC, SY]  
 R1016 1-216-845-11 s METAL, CHIP 100K 5% 1/16W  
 [for UC, SY]  
 R1018 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W  
 R1019 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W  
 R1020 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W  
 R1021 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W  
 R1022 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R1023 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R1024 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R1025 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W  
 R1026 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R1027 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R1028 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R1029 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W  
 R1030 1-216-845-11 s METAL, CHIP 100K 5% 1/16W  
 R1031 1-216-845-11 s METAL, CHIP 100K 5% 1/16W  
 R1032 1-216-097-00 s METAL, CHIP 100K 5% 1/10W  
 R1033 1-216-097-00 s METAL, CHIP 100K 5% 1/10W  
 R1034 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R1035 1-216-070-00 s METAL, CHIP 7.5K 5% 1/10W  
 R1036 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R1037 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W  
 R1038 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R1039 1-216-070-00 s METAL, CHIP 7.5K 5% 1/10W  
 R1040 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R1041 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W  
 R1042-1047 1-216-097-00 s METAL, CHIP 100K 5% 1/10W  
 R1048 1-216-295-00 s RES, CHIP 0  
 R1050 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W  
 [for UC, SY]  
 R1051 1-216-041-00 s METAL, CHIP 470 5% 1/10W  
 R1052 1-216-041-00 s METAL, CHIP 470 5% 1/10W  
 R1053 1-216-817-11 s METAL, CHIP 470 5% 1/16W  
 R1054 1-216-817-11 s METAL, CHIP 470 5% 1/16W  
 R2001 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W  
 R2002 1-216-089-00 s METAL, CHIP 47K 5% 1/10W  
 RV551 1-241-264-11 s RES, ADJ, CERMET 10K

## (CP-260/260J BOARD)

Ref. No.  
or Q'ty Part No. SP Description

S401 1-570-835-11 s SWITCH, SLIDE  
 S402 1-570-845-11 s SWITCH, SLIDE  
 S403 1-570-845-11 s SWITCH, SLIDE  
 S404-408 1-570-863-11 s SWITCH, SLIDE  
 S409 1-570-853-11 s SWITCH, SLIDE  
 S410 1-570-863-11 s SWITCH, SLIDE  
 S411 1-570-863-11 s SWITCH, SLIDE  
 S412 1-570-863-11 s SWITCH, SLIDE [for UC,SY]  
 S413 1-570-863-11 s SWITCH, SLIDE [for UC,SY]  
 S414 1-570-863-11 s SWITCH, SLIDE [for UC,SY]  
 S415 1-570-863-11 s SWITCH, SLIDE [for UC,SY]  
 S416 1-571-217-11 s SWITCH, SLIDE  
 S417 1-571-217-11 s SWITCH, SLIDE  
 S418 1-571-217-11 s SWITCH, SLIDE  
 S419 1-571-217-11 s SWITCH, SLIDE  
 S420 1-571-087-11 s SWITCH, SLIDE  
 S421 1-571-087-11 s SWITCH, SLIDE  
 S422 1-571-087-11 s SWITCH, SLIDE  
 S423 1-571-087-11 s SWITCH, SLIDE  
 S424 1-570-853-11 s SWITCH, SLIDE

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CS-26 BOARD

Ref. No.  
or Q'ty Part No. SP Description

7pcs 1-564-831-11 o CONTACT, FEMALE  
 1pc 1-569-193-11 o CONTACT, FEMALE  
 1pc 1-638-702-11 o PRINTED CIRCUIT BOARD, CS-26  
 CN2 1-564-013-11 o CONNECTOR 3P, MALE  
 CN957 1-569-200-21 o HOUSING 7P  
 PD1 8-719-939-05 s PHOTointERRUPTER GP-1S54  
 PD2 8-719-939-05 s PHOTointERRUPTER GP-1S54  
 R1 1-249-413-11 s CARBON 470 5% 1/4W  
 R2 1-247-871-11 s CARBON 47K 5% 1/4W  
 R3 1-247-871-11 s CARBON 47K 5% 1/4W

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DC-85 BOARD

Ref. No.  
or Q'ty Part No. SP Description

1pc 1-658-773-11 o PRINTED CIRCUIT BOARD, DC-85  
 CN1 1-565-875-11 o CONNECTOR 3P, MALE  
 CN2 1-565-875-11 o CONNECTOR 3P, MALE

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CS-25 BOARD

Ref. No.  
or Q'ty Part No. SP Description

1pc 1-638-701-12 o PRINTED CIRCUIT BOARD, CS-25  
 CN1 1-564-013-11 o CONNECTOR 3P, MALE  
 PD3 8-719-939-05 s PHOTointERRUPTER GP-1S54  
 R4 1-247-827-11 s CARBON 680 5% 1/4W  
 R5 1-247-871-11 s CARBON 47K 5% 1/4W

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DET-15 BOARD

Ref. No.  
or Q'ty Part No. SP Description

1pc 1-638-705-12 o PRINTED CIRCUIT BOARD, DET-15  
 CN1 1-506-482-11 s CONNECTOR 3P, MALE  
 PD1 8-719-939-05 s PHOTointERRUPTER GP-1S54  
 R1 1-249-409-11 s CARBON 220 5% 1/4W  
 R2 1-247-847-11 s CARBON 4.7K 5% 1/4W

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DET-26 BOARDRef. No.  
or Q'ty Part No. SP Description

1pc	A-8276-926-A o MOUNTED CIRCUIT BOARD, DET-26
CN1	1-506-469-11 s CONNECTOR 4P, MALE
PD1	8-719-988-15 s PHTO REFLECTOR PR-11-C
PD2	8-719-988-15 s PHTO REFLECTOR PR-11-C
Q1	8-729-117-32 s TRANSISTOR 2SC4177
Q2	8-729-117-32 s TRANSISTOR 2SC4177
R1	1-216-049-11 s METAL, CHIP 1K 5% 1/10W
R2	1-216-109-00 s METAL, CHIP 330K 5% 1/10W
R3	1-216-109-00 s METAL, CHIP 330K 5% 1/10W

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DIF-31 BOARDRef. No.  
or Q'ty Part No. SP Description

1pc	A-8276-928-A o MOUNTED CIRCUIT BOARD, DIF-31
C100	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V
C105	1-162-907-11 s CERAMIC, CHIP 2PF 50V
C107-120	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V
C121	1-163-121-00 s CERAMIC, CHIP 150PF 5% 50V
C122	1-164-217-11 s CERAMIC, CHIP 150PF 5% 50V
C123	1-104-823-11 s TANTALUM, CHIP 47uF 20% 16V
C124	1-107-826-11 s CERAMIC, CHIP 0.1uF 10% 16V
C129	1-107-826-11 s CERAMIC, CHIP 0.1uF 10% 16V
C300	1-107-826-11 s CERAMIC, CHIP 0.1uF 10% 16V
C301	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V
C302	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V
C303	1-107-826-11 s CERAMIC, CHIP 0.1uF 10% 16V
C304	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V
C305	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V
C306	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V
C307	1-164-363-11 s CERAMIC, CHIP 560PF 5% 50V
C308	1-162-923-11 s CERAMIC, CHIP 47PF 5% 50V
C309	1-162-923-11 s CERAMIC, CHIP 47PF 5% 50V
C310	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V
C311	1-104-823-11 s TANTALUM, CHIP 47uF 20% 16V
C312	1-104-823-11 s TANTALUM, CHIP 47uF 20% 16V
C313	1-107-826-11 s CERAMIC, CHIP 0.1uF 10% 16V
C314	1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
C315-319	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V
C321	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V
C346	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V
C348	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V
C349	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V
C350	1-165-128-11 s CERAMIC, CHIP 0.22uF 16V
C351	1-165-128-11 s CERAMIC, CHIP 0.22uF 16V
C352-356	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V
C357-362	1-104-823-11 s TANTALUM, CHIP 47uF 20% 16V
C364	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V
C365	1-161-485-00 s CERAMIC 0.1uF 50V
C370	1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
C500-504	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V
C505	1-104-823-11 s TANTALUM, CHIP 47uF 20% 16V
C506	1-104-823-11 s TANTALUM, CHIP 47uF 20% 16V
C507	1-104-823-11 s TANTALUM, CHIP 47uF 20% 16V
C508	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V
C509	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V
C510	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V
C511	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V
C512	1-104-823-11 s TANTALUM, CHIP 47uF 20% 16V
C513	1-104-823-11 s TANTALUM, CHIP 47uF 20% 16V
CN205	1-750-667-11 s CONNECTOR, BOARD TO BOARD 100P
CN251	1-750-880-11 s CONNECTOR, COAXIAL, FEMALE
CN252	1-750-880-11 s CONNECTOR, COAXIAL, FEMALE
CN253	1-750-880-11 s CONNECTOR, COAXIAL, FEMALE
CN254	1-750-880-11 s CONNECTOR, COAXIAL, FEMALE
D1	8-719-912-20 s DIODE ISS120
D200	8-719-157-36 s DIODE RD6.8M-B
FB300-305	1-543-309-21 s BEAD, FERRITE
FB310	1-543-309-21 s BEAD, FERRITE

## (DIF-31 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
IC100	8-759-079-94	s IC TC74VHC368FS(EL)
IC101	8-759-080-06	s IC TC74VHC574FS(EL)
IC102	8-759-080-06	s IC TC74VHC574FS(EL)
IC104	8-759-080-03	s IC TC74VHCT541FS(EL)
IC105	8-759-147-05	s IC UPD42101G-3
IC106	8-759-147-05	s IC UPD42101G-3
IC107	8-759-519-12	s IC CXD8281Q
IC108	8-759-172-73	s IC CXD8385Q
IC110	8-741-601-11	s IC SBX1601A
IC300	8-759-054-61	s IC CLC505AJE
IC301	8-741-602-03	s IC SBX1602A
IC302	8-759-079-49	s IC TC74VHC04FS(EL)
IC303	8-759-079-52	s IC TC74VHC08FS(EL)
IC304	8-759-079-60	s IC TC74VHC32FS(EL)
IC305	8-759-172-72	s IC CXD8386AQ
IC306	8-759-079-94	s IC TC74VHC368FS(EL)
IC308	8-759-079-61	s IC TC74VHC74FS(EL)
IC309	8-759-080-06	s IC TC74VHC574FS(EL)
IC310	8-759-080-06	s IC TC74VHC574FS(EL)
IC311	8-759-080-06	s IC TC74VHC574FS(EL)
IC312	8-759-289-69	s IC CXD8280AQ
IC313	8-759-186-32	s TC74VHC21F
IC500	8-759-079-87	s IC TC74VHC245FS(EL)
IC501	8-759-079-70	s IC TC74VHC138FS(EL)
IC502	8-759-233-56	s IC TC74HC688AF
IC503	8-759-079-49	s IC TC74VHC04FS(EL)
IC504	8-759-079-60	s IC TC74VHC32FS(EL)
IC505	8-759-079-61	s IC TC74VHC74FS(EL)
IC506	8-759-079-60	s IC TC74VHC32FS(EL)
IC508	8-759-080-06	s IC TC74VHC574FS(EL)
IC511	8-759-079-69	s IC TC74VHC132FS(EL)
L100	1-410-733-11	s INDUCTOR CHIP 0.22uH
Q100	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q101	8-729-143-46	s TRANSISTOR 2SC3356-R24
Q102	8-729-143-46	s TRANSISTOR 2SC3356-R24
Q103	8-729-143-46	s TRANSISTOR 2SC3356-R24
Q104	8-729-420-74	s TRANSISTOR 2SD1328-RST
Q300	8-729-143-46	s TRANSISTOR 2SC3356-R24
Q301	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q302	8-729-216-22	s TRANSISTOR 2SA1162
Q303	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q306	8-729-420-74	s TRANSISTOR 2SD1328-RST
Q307-328	8-729-024-56	s TRANSISTOR 2SA1808-P
Q330	8-729-420-74	s TRANSISTOR 2SD1328-RST
Q500	8-729-807-51	s TRANSISTOR 2SD1623-S
Q501	8-729-101-07	s TRANSISTOR 2SB798
R102	1-216-864-11	s METAL, CHIP 0
R114-119	1-216-864-11	s METAL, CHIP 0
R130	1-216-864-11	s METAL, CHIP 0
R131	1-216-864-11	s METAL, CHIP 0
R132	1-218-676-11	s METAL, CHIP 220 0.5% 1/16W
R133	1-218-676-11	s METAL, CHIP 220 0.5% 1/16W
R134	1-218-676-11	s METAL, CHIP 220 0.5% 1/16W
R137	1-216-864-11	s METAL, CHIP 0
R138	1-216-864-11	s METAL, CHIP 0
R141	1-216-864-11	s METAL, CHIP 0
R143-149	1-216-864-11	s METAL, CHIP 0

## (DIF-31 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R159	1-216-864-11	s METAL, CHIP 0
R160	1-216-864-11	s METAL, CHIP 0
R161	1-216-864-11	s METAL, CHIP 0
R175	1-216-864-11	s METAL, CHIP 0
R181	1-216-864-11	s METAL, CHIP 0
R182	1-216-864-11	s METAL, CHIP 0
R188	1-216-864-11	s METAL, CHIP 0
R191-195	1-216-864-11	s METAL, CHIP 0
R213-218	1-216-864-11	s METAL, CHIP 0
R230	1-216-839-11	s METAL, CHIP 33K 5% 1/16W
R231	1-216-836-11	s METAL, CHIP 18K 5% 1/16W
R232	1-216-839-11	s METAL, CHIP 33K 5% 1/16W
R233	1-216-836-11	s METAL, CHIP 18K 5% 1/16W
R235	1-218-676-11	s METAL, CHIP 220 0.5% 1/16W
R236	1-218-668-11	s METAL, CHIP 100 0.5% 1/16W
R237	1-218-676-11	s METAL, CHIP 220 0.5% 1/16W
R238	1-218-881-11	s METAL, CHIP 27K 0.5% 1/16W
R239	1-211-981-11	s METAL, CHIP 33 0.5% 1/16W
R240	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W
R241	1-211-990-11	s METAL, CHIP 75 0.5% 1/16W
R243	1-211-991-11	s METAL, CHIP 82 0.5% 1/16W
R242	1-211-981-11	s METAL, CHIP 33 0.5% 1/16W
R244	1-218-672-11	s METAL, CHIP 150 0.5% 1/16W
R245	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W
R246	1-218-664-11	s METAL, CHIP 68 0.5% 1/16W
R247	1-216-864-11	s METAL, CHIP 0
R300	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W
R301	1-211-991-11	s METAL, CHIP 82 0.5% 1/16W
R302	1-211-990-11	s METAL, CHIP 75 0.5% 1/16W
R303	1-211-990-11	s METAL, CHIP 75 0.5% 1/16W
R304	1-218-834-11	s METAL, CHIP 300 0.5% 1/16W
R305	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W
R306	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W
R307	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W
R308	1-218-829-11	s METAL, CHIP 180 0.5% 1/16W
R309	1-216-864-11	s METAL, CHIP 0
R310	1-218-702-11	s METAL, CHIP 2.7K 0.5% 1/16W
R311	1-218-708-11	s METAL, CHIP 4.7K 0.5% 1/16W
R312	1-218-725-11	s METAL, CHIP 24K 0.5% 1/16W
R313	1-218-740-11	s METAL, CHIP 100K 0.5% 1/16W
R314	1-218-741-11	s METAL, CHIP 110K 0.5% 1/16W
R315	1-218-732-11	s METAL, CHIP 47K 0.5% 1/16W
R316	1-211-991-11	s METAL, CHIP 82 0.5% 1/16W
R317	1-218-724-11	s METAL, CHIP 22K 0.5% 1/16W
R318	1-218-732-11	s METAL, CHIP 47K 0.5% 1/16W
R319	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R320	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W
R321	1-218-700-11	s METAL, CHIP 2.2K 0.5% 1/16W
R324	1-218-733-11	s METAL, CHIP 51K 0.5% 1/16W
R325	1-218-296-11	s METAL, CHIP 75K 5% 1/16W
R326	1-218-740-11	s METAL, CHIP 100K 0.5% 1/16W
R334	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R337	1-218-660-11	s METAL, CHIP 47 0.5% 1/16W
R338	1-218-829-11	s METAL, CHIP 180 0.5% 1/16W
R344-349	1-218-660-11	s METAL, CHIP 47 0.5% 1/16W
R350-355	1-218-833-11	s METAL, CHIP 270 0.5% 1/16W
R361-365	1-218-660-11	s METAL, CHIP 47 0.5% 1/16W
R366-370	1-218-833-11	s METAL, CHIP 270 0.5% 1/16W
R374-380	1-216-864-11	s METAL, CHIP 0

## (DIF-31 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R382	1-216-864-11 s	METAL, CHIP 0
R383	1-216-864-11 s	METAL, CHIP 0
R384	1-216-864-11 s	METAL, CHIP 0
R387	1-216-864-11 s	METAL, CHIP 0
R389	1-216-864-11 s	METAL, CHIP 0
R391	1-216-864-11 s	METAL, CHIP 0
R397	1-216-864-11 s	METAL, CHIP 0
R398	1-216-864-11 s	METAL, CHIP 0
R403	1-216-864-11 s	METAL, CHIP 0
R411	1-216-864-11 s	METAL, CHIP 0
R419	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R420	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R422	1-216-864-11 s	METAL, CHIP 0
R432	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R433	1-218-873-11 s	METAL, CHIP 12K 0.5% 1/16W
R434	1-216-854-11 s	METAL, CHIP 560K 5% 1/16W
R435	1-218-724-11 s	METAL, CHIP 22K 0.5% 1/16W
R436	1-216-864-11 s	METAL, CHIP 0
R437	1-216-813-11 s	METAL, CHIP 220 5% 1/16W
R439	1-216-864-11 s	METAL, CHIP 0
R444	1-216-864-11 s	METAL, CHIP 0
R446	1-216-864-11 s	METAL, CHIP 0
R448	1-216-864-11 s	METAL, CHIP 0
R450	1-216-864-11 s	METAL, CHIP 0
R451	1-216-864-11 s	METAL, CHIP 0
R452	1-216-864-11 s	METAL, CHIP 0
R455	1-216-864-11 s	METAL, CHIP 0
R456	1-216-864-11 s	METAL, CHIP 0
R500	1-216-864-11 s	METAL, CHIP 0
R502	1-216-864-11 s	METAL, CHIP 0
R504	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R507	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R515	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R516	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R517	1-216-829-11 s	METAL, CHIP 4.7K 5% 1/16W
R518	1-216-818-11 s	METAL, CHIP 560 5% 1/16W
R519	1-216-829-11 s	METAL, CHIP 4.7K 5% 1/16W
R520	1-218-840-11 s	METAL, CHIP 510 0.5% 1/16W
RB100	1-239-407-11 s	NETWORK RESISTOR (CHIP) 330
RB102	1-239-389-11 s	NETWORK RESISTOR (CHIP) 47K
RB103	1-239-407-11 s	NETWORK RESISTOR (CHIP) 330
RB105	1-239-389-11 s	NETWORK RESISTOR (CHIP) 47K
RB106	1-239-407-11 s	NETWORK RESISTOR (CHIP) 330
RB107	1-239-407-11 s	NETWORK RESISTOR (CHIP) 330
RB108	1-239-389-11 s	NETWORK RESISTOR (CHIP) 47K
RB111	1-239-416-11 s	NETWORK RESISTOR (CHIP) 220
RB112	1-239-416-11 s	NETWORK RESISTOR (CHIP) 220
RB300	1-239-389-11 s	NETWORK RESISTOR (CHIP) 47K
RB301	1-239-711-11 s	NETWORK RESISTOR (CHIP) 0
RB310	1-239-423-11 s	NETWORK RESISTOR (CHIP) 1.2K
RB311	1-239-423-11 s	NETWORK RESISTOR (CHIP) 1.2K
RB312	1-239-423-11 s	NETWORK RESISTOR (CHIP) 1.2K
RB500	1-239-412-11 s	NETWORK RESISTOR (CHIP) 100
RB501	1-239-412-11 s	NETWORK RESISTOR (CHIP) 100
RB502	1-239-412-11 s	NETWORK RESISTOR (CHIP) 100
RV100	1-237-036-11 s	RES, ADJ METAL 10K
RV300	1-237-036-11 s	RES, ADJ METAL 10K

## (DIF-31 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
S300	1-692-881-21 s	SWITCH, SLIDE

## DPR-62/62P BOARD

Ref. No.  
or Q'ty Part No. SP Description

1pc	A-8276-944-A	o MOUNTED CIRCUIT BOARD, DPR-62 [for NTSC]
	A-8276-946-A	o MOUNTED CIRCUIT BOARD, DPR-62P [for PAL]
This board include APR-20 board.		
C1	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C2	1-128-391-11	s ELECT 330uF 20% 6.3V
C4	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C7-12	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C13	1-126-396-11	s ELECT, CHIP 47uF 20% 16V
C14	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C15	1-110-985-11	s ELECT 0.0012F 20% 6.3V
C16	1-128-391-11	s ELECT 330uF 20% 6.3V
C17	1-128-391-11	s ELECT 330uF 20% 6.3V
C18	1-126-396-11	s ELECT, CHIP 47uF 20% 16V
C19-24	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C27	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C28	1-110-985-11	s ELECT 0.0012F 20% 6.3V
C100	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C105	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C110	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C111	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C113	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C114	1-162-927-11	s CERAMIC, CHIP 100PF 5% 50V
C115	1-135-091-00	s TANTALUM, CHIP 1uF 20% 16V
C116	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C117	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C120	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C121	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C123	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C124	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C128	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C130	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C200	1-126-412-11	s ELECT, CHIP 220uF 20% 4V
C201	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C202	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C203	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C204	1-126-412-11	s ELECT, CHIP 220uF 20% 4V
C205-210	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C211	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C212	1-135-210-11	s TANTALUM, CHIP 4.7uF 20% 10V [for PAL]
C213	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C217	1-135-091-00	s TANTALUM, CHIP 1uF 20% 16V
C219	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C221	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C225	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C229	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C232	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C235	1-135-138-11	s TANTALUM 10uF 20% 25V [for NTSC] 1-135-167-21 s TANTALUM, CHIP 68uF 20% 6.3V [for PAL]
C238	1-135-138-11	s TANTALUM 10uF 20% 25V [for NTSC] 1-135-167-21 s TANTALUM, CHIP 68uF 20% 6.3V [for PAL]
C239	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C240	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C300-313	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V

## (DPR-62/62P BOARD)

Ref. No.  
or Q'ty Part No. SP Description

C334	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C336	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C338	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C339	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C340	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C341	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C342	1-162-964-11	s CERAMIC, CHIP 0.001uF 10% 50V
C343	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C344	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C347	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C348	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C350	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C351	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C352	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C353	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C355	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C356	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C360	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C500	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C501	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C502	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C504	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C505	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C507	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C508	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C510	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C512	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C513	1-162-915-11	s CERAMIC, CHIP 10PF 50V
C514	1-162-915-11	s CERAMIC, CHIP 10PF 50V
C515	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C600-606	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C608	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C610	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C612	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C700-723	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C800	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C801	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C804	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C805	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C812	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C814	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C816	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C818	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C820	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C822	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C824	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C826	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C828	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C830	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C832	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C834	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C836	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C839-846	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C901	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C903	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C905	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C907	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C909	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C911	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V

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Ref. No.  
or Q'ty Part No. SP Description

C913 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C915 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C917 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C919 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C1000 1-162-915-11 s CERAMIC, CHIP 10PF 50V

C1001 1-162-915-11 s CERAMIC, CHIP 10PF 50V  
 C1002 1-162-915-11 s CERAMIC, CHIP 10PF 50V  
 C1003 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C1004 1-162-915-11 s CERAMIC, CHIP 10PF 50V  
 C1005 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V

C1006 1-162-915-11 s CERAMIC, CHIP 10PF 50V  
 C1007 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C1008 1-162-915-11 s CERAMIC, CHIP 10PF 50V  
 C1009 1-164-489-11 s CERAMIC, CHIP 0.22uF 10% 16V  
 C1010 1-164-489-11 s CERAMIC, CHIP 0.22uF 10% 16V

C1011-1015  
 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V

C1018 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C1019 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C1100 1-162-964-11 s CERAMIC, CHIP 0.001uF 10% 50V  
 C1101 1-135-215-21 s TANTALUM, CHIP 6.8uF 10% 16V  
 C1102-1109  
 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V

C1110 1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V  
 C1111 1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V  
 C1112-1121  
 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V

C1122 1-162-925-11 s CERAMIC, CHIP 68PF 5% 50V  
 C1123 1-162-925-11 s CERAMIC, CHIP 68PF 5% 50V  
 C1124 1-162-925-11 s CERAMIC, CHIP 68PF 5% 50V  
 C1125 1-162-925-11 s CERAMIC, CHIP 68PF 5% 50V  
 C1126 1-162-918-11 s CERAMIC, CHIP 18PF 5% 50V

C1127 1-162-918-11 s CERAMIC, CHIP 18PF 5% 50V  
 C1128-1133  
 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V

C1134-1141  
 1-162-957-11 s CERAMIC, CHIP 220PF 5% 50V

C1142-1146  
 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V

C1147 1-135-215-21 s TANTALUM, CHIP 6.8uF 10% 16V  
 C1148 1-162-967-11 s CERAMIC, CHIP 0.0033uF 10% 50V  
 C1149 1-162-967-11 s CERAMIC, CHIP 0.0033uF 10% 50V  
 C1150-1154  
 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V

C1155 1-162-995-11 s CERAMIC, CHIP 0.022uF 50V  
 C1156 1-162-995-11 s CERAMIC, CHIP 0.022uF 50V  
 C1157 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C1158 1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V  
 C1159 1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V

C1160 1-162-995-11 s CERAMIC, CHIP 0.022uF 50V  
 C1161 1-162-995-11 s CERAMIC, CHIP 0.022uF 50V  
 C1162 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C1163 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C1200 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V

C1202 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C1204 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C1206 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V

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Ref. No.  
or Q'ty Part No. SP Description

C1208 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C1210 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C1212 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C1214 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C1216 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V

C1218 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C1220 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C1222 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C1224 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C1226 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V

C1228 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C1230 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C1300 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C1301 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C1302 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V

C1303 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C1304 1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V  
 [for PAL]

C1305 1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V  
 C1306 1-162-919-11 s CERAMIC, CHIP 22PF 5% 50V  
 [for NTSC]

C1307 1-162-957-11 s CERAMIC, CHIP 220PF 5% 50V  
 C1308 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V [for PAL]  
 C1309 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C1310 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V  
 C1311 1-104-547-11 s FILM, CHIP 0.0047uF 5% 16V  
 [for PAL]

C1312 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C1313 1-164-315-11 s CERAMIC, CHIP 470PF 5% 50V  
 C1314 1-162-957-11 s CERAMIC, CHIP 220PF 5% 50V  
 C1315 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C1316 1-104-547-11 s FILM, CHIP 0.0047uF 5% 16V  
 [for PAL]

C1317 1-162-957-11 s CERAMIC, CHIP 220PF 5% 50V  
 C1318 1-164-315-11 s CERAMIC, CHIP 470PF 5% 50V  
 [for NTSC]

C1319 1-135-161-21 s TANTALUM, CHIP 22uF 10% 10V  
 [for NTSC]

C1320 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C1321 1-135-161-21 s TANTALUM, CHIP 22uF 10% 10V  
 [for NTSC]

C1323 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V  
 C1324 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C1326 1-135-085-21 s TANTALUM, CHIP 4.7uF 20% 25V  
 [for PAL]

C1327 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C1328 1-135-085-21 s TANTALUM, CHIP 4.7uF 20% 25V  
 [for PAL]

C1329 1-104-559-11 s FILM, CHIP 0.047uF 5% 16V  
 C1330 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C1331 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C1332 1-164-315-11 s CERAMIC, CHIP 470PF 5% 50V  
 C1333 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V

C1334 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V  
 C1336 1-162-911-11 s CERAMIC, CHIP 6PF 50V  
 C1337 1-162-907-11 s CERAMIC, CHIP 2PF 50V  
 C1338 1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V

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Ref. No. or Q'ty	Part No.	SP Description	Ref. No. or Q'ty	Part No.	SP Description
C1339	1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V		C1403	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C1340	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V [for PAL]		C1404	1-162-963-11 s CERAMIC, CHIP 680PF 10% 50V	
C1341	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V [for PAL]		C1405	1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V	
C1342	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C1406	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C1343	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C1408	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C1344	1-164-489-11 s CERAMIC, CHIP 0.22uF 10% 16V		C1410	1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V	
C1345	1-135-179-21 s TANTALUM 2.2uF 10% 16V		C1411	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C1346	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C1413	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C1347	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C1415	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C1348	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C1416	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C1350	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C1417	1-135-227-11 s TANTALUM, CHIP 100uF 20% 6.3V	
C1351	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C1418	1-135-227-11 s TANTALUM, CHIP 100uF 20% 6.3V	
C1353	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C1419	1-135-227-11 s TANTALUM, CHIP 100uF 20% 6.3V	
C1355	1-162-919-11 s CERAMIC, CHIP 22PF 5% 50V		C1420	1-135-227-11 s TANTALUM, CHIP 100uF 20% 6.3V	
C1356	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C1421	1-135-161-21 s TANTALUM, CHIP 22uF 10% 10V	
C1358	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C1422	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C1359	1-162-919-11 s CERAMIC, CHIP 22PF 5% 50V		C1423	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C1360	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C1424	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C1361	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C1425	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C1362	1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V		C1427	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C1363-1369	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C1428	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C1370	1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V		C1430	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C1371	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C1433	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C1372	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C1434	1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V	
C1373	1-162-925-11 s CERAMIC, CHIP 68PF 5% 50V		C1450	1-162-718-11 s CERAMIC 220PF 1% 50V	
C1374	1-162-957-11 s CERAMIC, CHIP 220PF 5% 50V		C1600	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C1375	1-162-925-11 s CERAMIC, CHIP 68PF 5% 50V		C1601	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C1376	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C1602	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C1377	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C1603	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C1378	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C2500	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C1379	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C2501	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C1380	1-164-218-11 s CERAMIC, CHIP 180PF 50V [for NTSC]		C2502	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C1381	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		CN201	1-774-269-11 s CONNECTOR, BOARD TO BOARD 30P	
C1382	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V [for PAL]		CN202	1-774-269-11 s CONNECTOR, BOARD TO BOARD 30P	
C1383	1-162-928-11 s CERAMIC, CHIP 120PF 5% 50V [for NTSC]		CN203	1-774-268-11 s CONNECTOR, BOARD TO BOARD 26P	
	1-164-217-11 s CERAMIC 150PF 5% 50V [for PAL]		CN204	1-774-266-11 s CONNECTOR, BOARD TO BOARD 18P	
C1384	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V [for PAL]		CN205	1-750-667-11 s CONNECTOR, BOARD TO BOARD 100P	
C1385	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		CN206	1-566-765-11 o CONNECTOR 10P, MALE	
C1386	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		CN207	1-566-767-11 o CONNECTOR 12P, MALE	
C1387	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V [for PAL]		CN208	1-566-761-11 o CONNECTOR 6P, MALE	
C1388	1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V [for PAL]		CN211	1-565-430-11 s SOCKET, SIL 10P	
C1389	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V [for PAL]		CN212	1-573-201-11 s SOCKET, SIL 5P	
C1390	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		CN213	1-573-201-11 s SOCKET, SIL 5P	
C1391	1-162-925-11 s CERAMIC, CHIP 68PF 5% 50V [for PAL]		CN908	1-774-267-11 s CONNECTOR, BOARD TO BOARD 20P	
C1392	1-162-957-11 s CERAMIC, CHIP 220PF 5% 50V [for PAL]		CN909	1-774-269-11 s CONNECTOR, BOARD TO BOARD 30P	
C1393	1-162-964-11 s CERAMIC, CHIP 0.001uF 10% 50V		CN910	1-774-269-11 s CONNECTOR, BOARD TO BOARD 30P	
C1394	1-162-925-11 s CERAMIC, CHIP 68PF 5% 50V [for PAL]		CN911	1-774-269-11 s CONNECTOR, BOARD TO BOARD 30P	
C1395	1-126-394-11 s ELECT, CHIP 10uF 20% 16V		CP100	1-760-275-11 s VCO, CRYSTAL 27.00000000MHz	
C1396	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V [for PAL]		CP200	1-760-277-11 s VCO, CRYSTAL 28.63636000MHz [for NTSC]	
C1397	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V			1-760-263-11 s VCO, CRYSTAL 35.46895000MHz [for PAL]	
C1398	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V [for PAL]		CP1100	1-760-847-21 s OSCILLATOR, CRYSTAL 33.07825000MHz [for NTSC]	
C1399	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V [for PAL]			1-760-846-11 s OSCILLATOR, CRYSTAL 32.51435000MHz [for PAL]	
C1400	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		CP1300	1-760-267-11 s VCO, CRYSTAL 14.31818000MHz [for NTSC]	
C1401	1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V			1-760-268-11 s VCO, CRYSTAL 17.73447500MHz [for PAL]	
C1402	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V				

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Ref. No. or Q'ty	Part No.	SP Description
CP1301	1-577-223-11	s VCO 24.576MHz
CP1302	1-760-275-11	s VCO, CRYSTAL 27.0000000MHz
D200	8-719-941-23	s DIODE DA204U [for PAL]
D301	8-719-941-23	s DIODE DA204U
D302	8-719-023-69	s DIODE SB007T03Q
D303	8-719-023-69	s DIODE SB007T03Q
D304	8-719-023-69	s DIODE SB007T03Q
D305	8-719-941-23	s DIODE DA204U
D1100	8-719-941-23	s DIODE DA204U
D1300	8-719-941-23	s DIODE DA204U [for NTSC]
D1301-1305	8-719-941-23	s DIODE DA204U
D1306	8-719-123-82	s DIODE 1SS303-T1
D1307	8-719-023-69	s DIODE SB007T03Q
D1308	8-719-123-82	s DIODE 1SS303-T1
D1400	8-719-941-23	s DIODE DA204U
FB1	1-543-309-21	s BEAD, FERRITE
FB2	1-543-309-21	s BEAD, FERRITE
FB101	1-543-309-21	s BEAD, FERRITE
FB201	1-543-309-21	s BEAD, FERRITE
FB1301	1-543-309-21	s BEAD, FERRITE
FB1303	1-543-309-21	s BEAD, FERRITE
FB1304	1-543-309-21	s BEAD, FERRITE
IC4	8-759-079-85	s IC TC74VHC244FS(EL)
IC20	8-759-079-85	s IC TC74VHC244FS(EL)
IC21	8-759-079-85	s IC TC74VHC244FS(EL)
IC22	8-759-079-85	s IC TC74VHC244FS(EL)
IC25	8-759-079-49	s IC TC74VHC04FS(EL)
IC26	8-759-079-52	s IC TC74VHC08FS(EL)
IC105	8-759-234-20	s IC TC7S08F
IC111	8-759-080-02	s IC TC74VHC541FS(EL)
IC112	8-759-359-12	s IC DS1000Z-100
IC113	8-752-306-51	s IC CX23065A
IC114	8-759-105-49	s IC UPC319G2
IC116	8-752-360-90	s IC CXD303-101Q [for NTSC]
IC117-203	8-759-079-74	s IC TC74VHC157FS(EL)
IC204	8-759-517-31	s IC S-8052-ANY-NH
IC205	8-759-249-01	s IC CXD382BQ
IC206	8-759-080-02	s IC TC74VHC541FS(EL)
IC207	8-759-079-87	s IC TC74VHC245FS(EL)
IC208	8-752-306-51	s IC CX23065A
IC209	8-759-277-19	s IC UPD485505G-35
IC210	8-759-079-46	s IC TC74VHC00FS(EL)
IC211	8-759-030-16	s IC MC34182M
IC212	8-759-277-19	s IC UPD485505G-35
IC213	8-759-234-77	s IC TC4S66F [for PAL]
IC214	8-759-082-55	s IC TC7W00FU [for PAL]
IC300	8-759-079-52	s IC TC74VHC08FS(EL)
IC301	8-759-079-86	s IC TC74VHCT244FS(EL)
IC302	8-759-927-12	s IC SN74HCT244ANS
IC303	8-759-269-09	s IC SN74HCT04ANS
IC304	8-759-940-45	s IC S-8054HN-CB
IC305	8-759-175-71	s IC UPD78P014GC-AB8
IC306	8-759-097-51	s IC MSM6524GS-VKR2
IC307	8-759-082-57	s IC TC7W04FU
IC309	8-759-080-02	s IC TC74VHC541FS(EL)

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Ref. No. or Q'ty	Part No.	SP Description
IC310	8-759-277-19	s IC UPD485505G-35
IC311	8-759-277-19	s IC UPD485505G-35
IC312	8-759-277-19	s IC UPD485505G-35
IC313	8-759-186-54	s IC TC74VHC164F
IC314	8-759-080-03	s IC TC74VHCT541FS(EL)
IC316	8-759-079-86	s IC TC74VHCT244FS(EL)
IC500	8-759-080-02	s IC TC74VHC541FS(EL)
IC501	8-759-188-02	s IC CXD8854Q
IC503	8-759-186-84	s IC TC74VHC86F
IC600	8-759-349-09	s IC UPD434008LE-20-P
IC601	8-759-349-09	s IC UPD434008LE-20-P
IC602	8-759-349-09	s IC UPD434008LE-20-P
IC603	8-759-177-52	s IC HM62W8127HJP-27
IC604	8-759-177-52	s IC HM62W8127HJP-27
IC605	8-759-177-52	s IC HM62W8127HJP-27
IC606	8-759-177-52	s IC HM62W8127HJP-27
IC701	8-759-177-53	s IC HM62W8127HJP-35
IC702	8-759-177-53	s IC HM62W8127HJP-35
IC704	8-759-177-53	s IC HM62W8127HJP-35
IC705	8-759-177-53	s IC HM62W8127HJP-35
IC707	8-759-177-49	s IC HM62W9127HJP-35
IC708	8-759-177-49	s IC HM62W9127HJP-35
IC800	8-759-079-60	s IC TC74VHC32FS(EL)
IC801	8-759-079-87	s IC TC74VHC245FS(EL)
IC802	8-759-080-02	s IC TC74VHC541FS(EL)
IC803	8-759-175-60	s IC SN74LVT245NS-E05
IC808	8-759-080-06	s IC TC74VHC574FS(EL)
IC809	8-759-080-06	s IC TC74VHC574FS(EL)
IC811	8-759-349-09	s IC UPD434008LE-20-P
IC812	8-759-349-09	s IC UPD434008LE-20-P
IC813	8-759-349-09	s IC UPD434008LE-20-P
IC1000	8-759-079-74	s IC TC74VHC157FS(EL)
IC1001	8-759-079-74	s IC TC74VHC157FS(EL)
IC1002	8-759-080-02	s IC TC74VHC541FS(EL)
IC1003	8-759-079-80	s IC TC74VHC175FS(EL)
IC1005	8-759-177-53	s IC HM62W8127HJP-35
IC1006	8-759-079-52	s IC TC74VHC08FS(EL)
IC1007	8-759-195-81	s IC TC7S86FU
IC1008	8-759-079-60	s IC TC74VHC32FS(EL)
IC1009	8-759-079-52	s IC TC74VHC08FS(EL)
IC1011	8-759-186-43	s IC TC74VHC123AF
IC1013	8-759-080-06	s IC TC74VHC574FS(EL)
IC1014	8-759-079-80	s IC TC74VHC175FS(EL)
IC1103	8-759-080-02	s IC TC74VHC541FS(EL)
IC1104	8-759-079-46	s IC TC74VHC00FS(EL)
IC1105	8-752-377-24	s IC CXD306-138Q
IC1106	8-759-079-46	s IC TC74VHC00FS(EL)
IC1107	8-759-174-16	s IC TC74VHC244F
IC1108	8-759-079-74	s IC TC74VHC157FS(EL)
IC1109	8-759-079-74	s IC TC74VHC157FS(EL)
IC1111	8-752-377-24	s IC CXD306-138Q
IC1112	8-759-080-02	s IC TC74VHC541FS(EL)
IC1113	8-759-186-84	s IC TC74VHC86F
IC1114	8-759-080-02	s IC TC74VHC541FS(EL)
IC1115	8-759-080-02	s IC TC74VHC541FS(EL)
IC1116	8-759-112-53	s IC UPC1663G
IC1117	8-759-112-53	s IC UPC1663G
IC1118	8-759-030-55	s IC MC1496M
IC1119	8-759-030-55	s IC MC1496M

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Ref. No. or Q'ty	Part No.	SP Description
IC1120	8-759-082-53	s IC TLC274CPW
IC1121	8-759-079-74	s IC TC74VHC157FS (EL)
IC1122	8-759-080-06	s IC TC74VHC574FS (EL)
IC1124	8-759-082-58	s IC TC7W08FU
IC1300	8-759-195-81	s IC TC7S86FU [for PAL]
IC1301	8-759-014-29	s IC MC34184M [for PAL]
IC1302	8-759-300-71	s IC HD14053BFP
IC1303	8-759-987-27	s IC LM1881M
IC1304	8-759-239-58	s IC TC74HC221AF
IC1305	8-752-306-51	s IC CX23065A [for NTSC]
IC1306	8-759-030-16	s IC MC34182M [for PAL]
IC1307	8-759-262-03	s IC MC14577CF
IC1308	8-759-030-16	s IC MC34182M
IC1309	8-759-702-08	s IC NJM360M
IC1310	8-759-925-05	s IC LM2903PS [for PAL]
IC1311	8-759-082-57	s IC TC7W04FU
IC1312	8-759-184-64	s IC TC4W66FU
IC1313	8-759-035-93	s IC TC7S32F-TE85L [for PAL]
IC1314	8-759-702-08	s IC NJM360M
IC1315	8-759-907-81	s IC SN74LS221NS
IC1316	8-759-175-66	s IC CXD8817Q
IC1317	8-759-014-29	s IC MC34184M
IC1318	8-759-907-81	s IC SN74LS221NS
IC1319	8-759-082-57	s IC TC7W04FU
IC1320	8-752-334-64	s IC CXD1171M
IC1321	8-759-926-15	s IC SN74HC151ANS
IC1322	8-759-234-20	s IC TC7S08F
IC1323	8-759-082-57	s IC TC7W04FU
IC1324	8-759-186-53	s IC TC74VHC163F
IC1325	8-759-925-05	s IC LM2903PS
IC1326	8-759-702-08	s IC NJM360M
IC1327	8-759-186-39	s IC TC74VHC74F
IC1328	8-759-907-81	s IC SN74LS221NS
IC1329	8-752-334-64	s IC CXD1171M [for PAL]
IC1330	8-759-082-61	s IC TC4W53FU
IC1331	8-759-080-02	s IC TC74VHC541FS (EL)
IC1332	8-752-306-51	s IC CX23065A
IC1333	8-759-702-08	s IC NJM360M [for PAL]
IC1334	8-759-030-16	s IC MC34182M
IC1335	8-759-926-15	s IC SN74HC151ANS
IC1336	8-759-907-81	s IC SN74LS221NS
IC1337	8-759-175-65	s IC CXD8821Q
IC1338	8-759-262-03	s IC MC14577CF
IC1339	8-759-082-61	s IC TC4W53FU
IC1340	8-759-014-29	s IC MC34184M
IC1341	8-759-234-77	s IC TC4S66F
IC1342	8-759-234-77	s IC TC4S66F
IC1343	8-759-174-16	s IC TC74VHC244F
IC1344	8-759-186-77	s IC TC74VHC541F
IC1345	8-759-186-63	s IC TC74VHC245F
IC1346	8-759-186-63	s IC TC74VHC245F
IC1348	8-759-272-21	s IC TC74VHCT541F
IC1349	8-759-272-21	s IC TC74VHCT541F
IC1600	8-759-348-81	s IC SM5843AS1-E2
IC1601	8-759-348-81	s IC SM5843AS1-E2
IC1602	8-759-269-16	s IC SN74HCT32ANS
IC1603	8-759-348-81	s IC SM5843AS1-E2
IC1604	8-759-348-81	s IC SM5843AS1-E2
IC1605	8-759-079-74	s IC TC74VHC157FS (EL)

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Ref. No. or Q'ty	Part No.	SP Description
IC2500	8-759-079-97	s IC TC74VHC374FS (EL)
IC2501	8-759-079-97	s IC TC74VHC374FS (EL)
IC2502	8-759-348-79	s IC TE7751
IC3000	8-759-079-74	s IC TC74VHC157FS (EL)
IC3001	8-759-079-60	s IC TC74VHC32FS (EL)
IC3002	8-759-079-60	s IC TC74VHC32FS (EL)
IC5900	8-759-079-80	s IC TC74VHC175FS (EL)
L1-7	1-409-579-11	s COIL, CHOKE 8.2uH
L10	1-409-579-11	s COIL, CHOKE 8.2uH
L12	1-409-579-11	s COIL, CHOKE 8.2uH
L13	1-409-579-11	s COIL, CHOKE 8.2uH
L1300	1-412-138-11	s INDUCTOR 100uH
L1301	1-412-188-11	s INDUCTOR 22uH
L1302	1-410-388-31	s INDUCTOR, CHIP 39uH [for PAL]
	1-410-391-11	s INDUCTOR, CHIP 68uH [for NTSC]
L1303	1-412-191-11	s INDUCTOR 47uH
L1304	1-412-191-11	s INDUCTOR 47uH
L1305	1-412-191-11	s INDUCTOR 47uH [for PAL]
L1306	1-412-191-11	s INDUCTOR 47uH [for PAL]
Q1100	8-729-140-47	s TRANSISTOR 2SC3735-B34
Q1101	8-729-140-47	s TRANSISTOR 2SC3735-B34
Q1102	8-729-140-47	s TRANSISTOR 2SC3735-B34
Q1103	8-729-824-34	s TRANSISTOR 2SJ187
Q1104	8-729-140-47	s TRANSISTOR 2SC3735-B34
Q1300	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q1301	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q1302	8-729-143-07	s TRANSISTOR 2SA1610-YY33
Q1303	8-729-143-07	s TRANSISTOR 2SA1610-YY33
Q1304	8-729-029-14	s TRANSISTOR DTC144EUA-T106
Q1305	8-729-117-32	s TRANSISTOR 2SC4177
Q1306	8-729-117-32	s TRANSISTOR 2SC4177
Q1307	8-729-117-32	s TRANSISTOR 2SC4177
Q1308	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q1309	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q1310	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q1311	8-729-028-91	s TRANSISTOR DTA144EUA-T106
Q1312	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q1313	8-729-117-32	s TRANSISTOR 2SC4177
R1	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R2	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R3	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R4	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R5	1-216-864-11	s METEL, CHIP 0 [for PAL]
R6	1-216-864-11	s METEL, CHIP 0
R7	1-216-864-11	s METEL, CHIP 0
R10	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R11	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R12	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R16	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R17	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R18	1-216-864-11	s METEL, CHIP 0
R19	1-216-864-11	s METEL, CHIP 0
R20	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R21	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R22	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R23	1-216-864-11	s METEL, CHIP 0
R26	1-216-864-11	s METEL, CHIP 0
R27	1-216-864-11	s METEL, CHIP 0

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Ref. No. or Q'ty	Part No.	SP Description
R31	1-216-864-11 s METEL, CHIP 0	
R32	1-216-864-11 s METEL, CHIP 0	
R33	1-216-841-11 s METAL, CHIP 47K 5% 1/16W	
R102	1-216-864-11 s METEL, CHIP 0	
R103	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R104	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R105	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R107	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R110	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R111	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R112	1-216-821-11 s METAL, CHIP 1K 5% 1/16W	
R113	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R114	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R118	1-216-864-11 s METEL, CHIP 0	
R120	1-216-864-11 s METEL, CHIP 0	
R121	1-216-864-11 s METEL, CHIP 0	
R122	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R123	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R124	1-216-841-11 s METAL, CHIP 47K 5% 1/16W	
R125	1-216-864-11 s METEL, CHIP 0	
R126	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R127	1-216-864-11 s METEL, CHIP 0	
R128	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R129	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R130	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R131	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R132	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R133	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R134	1-216-864-11 s METEL, CHIP 0	
R135	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R138	1-216-864-11 s METEL, CHIP 0	
R139	1-216-864-11 s METEL, CHIP 0	
R140	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R142	1-216-841-11 s METAL, CHIP 47K 5% 1/16W	
R200	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R201	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R202	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R203	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R204	1-216-833-11 s METAL, CHIP 10K 5% 1/16W [for NTSC]	
R206	1-216-833-11 s METAL, CHIP 10K 5% 1/16W [for PAL]	
R207	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R208	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R209	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R210	1-216-822-11 s METAL, CHIP 1.2K 5% 1/16W [for PAL]	
R211	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R213	1-216-864-11 s METEL, CHIP 0	
R214	1-216-805-11 s METAL, CHIP 47 5% 1/16W [for PAL]	
R215	1-216-805-11 s METAL, CHIP 47 5% 1/16W [for NTSC]	
R216	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R217	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R218	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R219	1-218-708-11 s METAL, CHIP 4.7K 0.5% 1/16W	
R220	1-216-853-11 s METAL, CHIP 470K 5% 1/16W [for PAL]	
R221	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R222	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R223	1-216-864-11 s METEL, CHIP 0	
R224	1-218-716-11 s METAL, CHIP 10K 0.5% 1/16W	
R225	1-216-864-11 s METEL, CHIP 0	
R226	1-216-857-11 s METAL, CHIP 1M 5% 1/16W	

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Ref. No. or Q'ty	Part No.	SP Description
R227	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R228	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R229	1-216-864-11 s METEL, CHIP 0	
R230	1-216-864-11 s METEL, CHIP 0	
R231	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R232	1-216-864-11 s METEL, CHIP 0	
R233	1-216-864-11 s METEL, CHIP 0	
R234	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R235	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R236	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R237	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R290	1-216-864-11 s METEL, CHIP 0	
R292	1-216-845-11 s METAL, CHIP 100K 5% 1/16W	
R296	1-216-864-11 s METEL, CHIP 0	
R300	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R301	1-216-845-11 s METAL, CHIP 100K 5% 1/16W	
R302	1-216-864-11 s METEL, CHIP 0	
R304	1-216-864-11 s METEL, CHIP 0	
R305	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R307	1-216-864-11 s METEL, CHIP 0	
R308	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R309	1-216-864-11 s METEL, CHIP 0	
R310	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R311	1-216-845-11 s METAL, CHIP 100K 5% 1/16W	
R312	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R314	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R315	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R316	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R317	1-216-864-11 s METEL, CHIP 0	
R318	1-216-864-11 s METEL, CHIP 0	
R319-325	1-216-821-11 s METAL, CHIP 1K 5% 1/16W	
R326	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R327	1-216-821-11 s METAL, CHIP 1K 5% 1/16W	
R328	1-216-821-11 s METAL, CHIP 1K 5% 1/16W	
R329	1-216-821-11 s METAL, CHIP 1K 5% 1/16W	
R330	1-216-864-11 s METEL, CHIP 0	
R331	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R333	1-216-821-11 s METAL, CHIP 1K 5% 1/16W	
R334	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R335	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R336	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R337	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R338	1-216-809-11 s METAL, CHIP 100 5% 1/16W	
R339	1-216-809-11 s METAL, CHIP 100 5% 1/16W	
R340	1-216-809-11 s METAL, CHIP 100 5% 1/16W	
R341	1-216-809-11 s METAL, CHIP 100 5% 1/16W	
R342	1-216-821-11 s METAL, CHIP 1K 5% 1/16W	
R343-348	1-216-809-11 s METAL, CHIP 100 5% 1/16W	
R349	1-216-817-11 s METAL, CHIP 470 5% 1/16W	
R350	1-216-809-11 s METAL, CHIP 100 5% 1/16W	
R351	1-216-809-11 s METAL, CHIP 100 5% 1/16W	
R352	1-216-864-11 s METEL, CHIP 0	
R354	1-216-805-11 s METAL, CHIP 47 5% 1/16W [for PAL]	
R355	1-216-821-11 s METAL, CHIP 1K 5% 1/16W	
R356	1-216-821-11 s METAL, CHIP 1K 5% 1/16W	
R357-363	1-216-864-11 s METEL, CHIP 0	
R364	1-216-845-11 s METAL, CHIP 100K 5% 1/16W	
R375	1-216-864-11 s METEL, CHIP 0	
R377-382	1-216-864-11 s METEL, CHIP 0	

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Ref. No. or Q'ty	Part No.	SP Description
R383	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R384	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R385	1-216-864-11 s	METEL, CHIP 0
R390	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R391	1-216-864-11 s	METEL, CHIP 0
R392	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R395	1-216-864-11 s	METEL, CHIP 0
R502	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R503	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R504	1-216-864-11 s	METEL, CHIP 0
R505	1-216-864-11 s	METEL, CHIP 0
R506	1-216-864-11 s	METEL, CHIP 0
R507	1-216-864-11 s	METEL, CHIP 0 [for NTSC]
R508	1-216-864-11 s	METEL, CHIP 0
R509	1-216-864-11 s	METEL, CHIP 0
R510	1-216-864-11 s	METEL, CHIP 0
R513	1-216-864-11 s	METEL, CHIP 0
R514	1-216-864-11 s	METEL, CHIP 0
R515	1-216-864-11 s	METEL, CHIP 0
R516	1-216-864-11 s	METEL, CHIP 0
R517	1-216-864-11 s	METEL, CHIP 0 [for PAL]
R518	1-216-864-11 s	METEL, CHIP 0
R609	1-216-864-11 s	METEL, CHIP 0
R611	1-216-864-11 s	METEL, CHIP 0
R613	1-216-864-11 s	METEL, CHIP 0
R700	1-216-805-11 s	METAL, CHIP 47 5% 1/16W
R701-712	1-216-864-11 s	METEL, CHIP 0
R713	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R714	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R715	1-216-864-11 s	METEL, CHIP 0
R716	1-216-864-11 s	METEL, CHIP 0
R719	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R720-730	1-216-864-11 s	METEL, CHIP 0
R800	1-216-864-11 s	METEL, CHIP 0
R801	1-216-864-11 s	METEL, CHIP 0
R802	1-216-864-11 s	METEL, CHIP 0
R809-815	1-216-864-11 s	METEL, CHIP 0
R816	1-216-805-11 s	METAL, CHIP 47 5% 1/16W
R817	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R818	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R1000-1006	1-216-864-11 s	METEL, CHIP 0
R1007	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R1008-1012	1-216-864-11 s	METEL, CHIP 0
R1014	1-216-805-11 s	METAL, CHIP 47 5% 1/16W
R1015	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R1016	1-216-805-11 s	METAL, CHIP 47 5% 1/16W
R1019	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R1020	1-216-864-11 s	METEL, CHIP 0
R1022	1-216-805-11 s	METAL, CHIP 47 5% 1/16W
R1023	1-216-805-11 s	METAL, CHIP 47 5% 1/16W
R1024	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R1025	1-216-864-11 s	METEL, CHIP 0
R1026	1-216-864-11 s	METEL, CHIP 0
R1027	1-216-864-11 s	METEL, CHIP 0
R1028	1-218-740-11 s	METAL, CHIP 100K 0.5% 1/16W
R1029	1-218-740-11 s	METAL, CHIP 100K 0.5% 1/16W

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Ref. No. or Q'ty	Part No.	SP Description
R1030	1-216-864-11 s	METEL, CHIP 0
R1100	1-216-805-11 s	METAL, CHIP 47 5% 1/16W
R1101	1-218-707-11 s	METAL, CHIP 4.3K 0.5% 1/16W
R1102	1-216-864-11 s	METEL, CHIP 0
R1103	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R1104	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R1105	1-216-864-11 s	METEL, CHIP 0
R1106	1-216-824-11 s	METAL, CHIP 1.8K 5% 1/16W
R1107	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R1108	1-216-864-11 s	METEL, CHIP 0
R1109	1-216-864-11 s	METEL, CHIP 0
R1111	1-216-864-11 s	METEL, CHIP 0
R1112	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R1113	1-216-864-11 s	METEL, CHIP 0 [for NTSC]
R1118	1-216-864-11 s	METEL, CHIP 0
R1119	1-216-864-11 s	METEL, CHIP 0
R1120	1-216-864-11 s	METEL, CHIP 0
R1121	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R1122	1-216-864-11 s	METEL, CHIP 0
R1123	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R1124	1-216-864-11 s	METEL, CHIP 0
R1125	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R1126	1-218-864-11 s	METAL, CHIP 5.1K 0.5% 1/16W
R1127	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R1128	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R1129	1-218-864-11 s	METAL, CHIP 5.1K 0.5% 1/16W
R1130	1-216-824-11 s	METAL, CHIP 1.8K 5% 1/16W
R1131	1-216-864-11 s	METEL, CHIP 0
R1133	1-216-864-11 s	METEL, CHIP 0
R1134	1-216-822-11 s	METAL, CHIP 1.2K 5% 1/16W
R1135	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R1136	1-216-864-11 s	METEL, CHIP 0
R1137	1-216-864-11 s	METEL, CHIP 0
R1140	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R1141	1-216-864-11 s	METEL, CHIP 0
R1145	1-216-864-11 s	METEL, CHIP 0
R1146	1-216-864-11 s	METEL, CHIP 0
R1147	1-218-867-11 s	METAL, CHIP 6.8K 0.5% 1/16W
R1148	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R1149	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R1150	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R1151	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R1152	1-218-716-11 s	METAL, CHIP 10K 0.5% 1/16W
R1153	1-218-716-11 s	METAL, CHIP 10K 0.5% 1/16W
R1154-1158	1-218-668-11 s	METAL, CHIP 100 0.5% 1/16W
R1159	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R1160	1-218-668-11 s	METAL, CHIP 100 0.5% 1/16W
R1161	1-218-668-11 s	METAL, CHIP 100 0.5% 1/16W
R1162	1-218-837-11 s	METAL, CHIP 390 0.5% 1/16W
R1163	1-218-837-11 s	METAL, CHIP 390 0.5% 1/16W
R1164	1-218-837-11 s	METAL, CHIP 390 0.5% 1/16W
R1165	1-218-837-11 s	METAL, CHIP 390 0.5% 1/16W
R1168	1-218-838-11 s	METAL, CHIP 430 0.5% 1/16W
R1169	1-218-838-11 s	METAL, CHIP 430 0.5% 1/16W
R1170	1-218-838-11 s	METAL, CHIP 430 0.5% 1/16W
R1171	1-218-838-11 s	METAL, CHIP 430 0.5% 1/16W
R1172	1-216-822-11 s	METAL, CHIP 1.2K 5% 1/16W
R1173	1-216-832-11 s	METAL, CHIP 8.2K 5% 1/16W

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Ref. No.  
or Q'ty Part No. SP Description

R1174 1-216-813-11 s METAL, CHIP 220 5% 1/16W  
 R1175 1-216-813-11 s METAL, CHIP 220 5% 1/16W  
 R1176 1-216-824-11 s METAL, CHIP 1.8K 5% 1/16W  
 R1177 1-216-822-11 s METAL, CHIP 1.2K 5% 1/16W  
 R1178 1-216-822-11 s METAL, CHIP 1.2K 5% 1/16W

R1179 1-216-813-11 s METAL, CHIP 220 5% 1/16W  
 R1180 1-218-692-11 s METAL, CHIP 1K 0.5% 1/16W  
 R1181 1-218-692-11 s METAL, CHIP 1K 0.5% 1/16W  
 R1182 1-218-692-11 s METAL, CHIP 1K 0.5% 1/16W  
 R1183 1-218-692-11 s METAL, CHIP 1K 0.5% 1/16W

R1184 1-218-851-11 s METAL, CHIP 1.5K 0.5% 1/16W  
 R1185 1-218-851-11 s METAL, CHIP 1.5K 0.5% 1/16W  
 R1186 1-218-851-11 s METAL, CHIP 1.5K 0.5% 1/16W  
 R1187 1-218-851-11 s METAL, CHIP 1.5K 0.5% 1/16W  
 R1188 1-218-716-11 s METAL, CHIP 10K 0.5% 1/16W

R1189 1-218-716-11 s METAL, CHIP 10K 0.5% 1/16W  
 R1190 1-218-868-11 s METAL, CHIP 7.5K 0.5% 1/16W  
 R1191 1-218-851-11 s METAL, CHIP 1.5K 0.5% 1/16W  
 R1192 1-218-851-11 s METAL, CHIP 1.5K 0.5% 1/16W  
 R1193 1-218-698-11 s METAL, CHIP 1.8K 0.5% 1/16W

R1194-1199  
 1-218-851-11 s METAL, CHIP 1.5K 0.5% 1/16W

R1200 1-218-705-11 s METAL, CHIP 3.6K 0.5% 1/16W  
 R1201 1-218-692-11 s METAL, CHIP 1K 0.5% 1/16W  
 R1202 1-218-716-11 s METAL, CHIP 10K 0.5% 1/16W  
 R1203 1-218-866-11 s METAL, CHIP 6.2K 0.5% 1/16W  
 R1204 1-218-866-11 s METAL, CHIP 6.2K 0.5% 1/16W

R1205 1-218-714-11 s METAL, CHIP 8.2K 0.5% 1/16W  
 R1206 1-218-866-11 s METAL, CHIP 6.2K 0.5% 1/16W  
 R1207 1-218-866-11 s METAL, CHIP 6.2K 0.5% 1/16W  
 R1208 1-218-714-11 s METAL, CHIP 8.2K 0.5% 1/16W  
 R1209-1216  
 1-218-716-11 s METAL, CHIP 10K 0.5% 1/16W

R1217 1-218-692-11 s METAL, CHIP 1K 0.5% 1/16W  
 R1218 1-218-692-11 s METAL, CHIP 1K 0.5% 1/16W  
 R1219 1-216-864-11 s METEL, CHIP 0  
 R1220 1-216-864-11 s METEL, CHIP 0  
 R1221 1-216-813-11 s METAL, CHIP 220 5% 1/16W

R1222 1-216-864-11 s METEL, CHIP 0  
 R1223 1-216-864-11 s METEL, CHIP 0  
 R1224 1-216-824-11 s METAL, CHIP 1.8K 5% 1/16W  
 R1225 1-216-832-11 s METAL, CHIP 8.2K 5% 1/16W  
 R1230 1-216-833-11 s METAL, CHIP 10K 5% 1/16W

R1270-1277  
 1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W

R1300 1-216-864-11 s METEL, CHIP 0 [for NTSC]  
 R1301 1-216-864-11 s METEL, CHIP 0 [for PAL]  
 R1302 1-218-692-11 s METAL, CHIP 1K 0.5% 1/16W  
 R1303 1-216-864-11 s METEL, CHIP 0  
 R1304 1-216-864-11 s METEL, CHIP 0 [for PAL]  
 R1305 1-216-821-11 s METAL, CHIP 1K 5% 1/16W  
 R1306 1-216-805-11 s METAL, CHIP 47 5% 1/16W  
 R1307 1-218-845-11 s METAL, CHIP 820 0.5% 1/16W  
 R1308 1-216-822-11 s METAL, CHIP 1.2K 5% 1/16W [for PAL]  
 R1309 1-216-821-11 s METAL, CHIP 1K 5% 1/16W

R1310 1-216-864-11 s METEL, CHIP 0  
 R1311 1-216-857-11 s METAL, CHIP 1M 5% 1/16W [for PAL]  
 R1312 1-216-840-11 s METAL, CHIP 39K 5% 1/16W [for PAL]

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Ref. No.  
or Q'ty Part No. SP Description

R1313 1-216-834-11 s METAL, CHIP 12K 5% 1/16W [for PAL]  
 R1314 1-216-821-11 s METAL, CHIP 1K 5% 1/16W  
 R1315 1-216-857-11 s METAL, CHIP 1M 5% 1/16W [for PAL]  
 R1316 1-218-702-11 s METAL, CHIP 2.7K 0.5% 1/16W  
 R1317 1-218-716-11 s METAL, CHIP 10K 0.5% 1/16W

R1318 1-216-821-11 s METAL, CHIP 1K 5% 1/16W [for NTSC]  
 R1319 1-216-821-11 s METAL, CHIP 1K 5% 1/16W [for PAL]  
 R1320 1-216-845-11 s METAL, CHIP 100K 5% 1/16W  
 [for NTSC]

R1321 1-216-821-11 s METAL, CHIP 1K 5% 1/16W [for PAL]  
 R1322 1-216-821-11 s METAL, CHIP 1K 5% 1/16W [for PAL]  
 R1323 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W  
 R1324 1-216-821-11 s METAL, CHIP 1K 5% 1/16W [for PAL]  
 R1325 1-216-833-11 s METAL, CHIP 10K 5% 1/16W

R1326 1-216-833-11 s METAL, CHIP 10K 5% 1/16W [for PAL]  
 R1327 1-216-833-11 s METAL, CHIP 10K 5% 1/16W [for PAL]  
 R1329 1-216-863-11 s METAL, CHIP 3.3M 5% 1/16W  
 R1330 1-216-863-11 s METAL, CHIP 3.3M 5% 1/16W  
 R1331 1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W [for PAL]

R1332 1-216-843-11 s METAL, CHIP 68K 5% 1/16W  
 R1333 1-216-841-11 s METAL, CHIP 47K 5% 1/16W  
 R1334 1-216-857-11 s METAL, CHIP 1M 5% 1/16W [for PAL]  
 R1335 1-216-838-11 s METAL, CHIP 27K 5% 1/16W  
 R1336 1-216-821-11 s METAL, CHIP 1K 5% 1/16W [for PAL]

R1337 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W  
 R1338 1-216-821-11 s METAL, CHIP 1K 5% 1/16W [for PAL]  
 R1339 1-216-864-11 s METEL, CHIP 0 [for PAL]  
 R1340 1-216-833-11 s METAL, CHIP 10K 5% 1/16W  
 R1341 1-216-864-11 s METEL, CHIP 0 [for NTSC]

R1342 1-216-857-11 s METAL, CHIP 1M 5% 1/16W  
 R1343 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W  
 R1344 1-216-692-11 s METAL, CHIP 1K 0.5% 1/16W  
 R1345 1-216-692-11 s METAL, CHIP 1K 0.5% 1/16W  
 R1346 1-216-702-11 s METAL, CHIP 2.7K 0.5% 1/16W

R1347 1-216-821-11 s METAL, CHIP 1K 5% 1/16W  
 R1348 1-216-813-11 s METAL, CHIP 220 5% 1/16W  
 R1349 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W  
 R1350 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W  
 R1351 1-216-821-11 s METAL, CHIP 1K 5% 1/16W

R1352 1-216-809-11 s METAL, CHIP 100 5% 1/16W  
 R1353 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W  
 R1354 1-216-805-11 s METAL, CHIP 47 5% 1/16W  
 R1355 1-216-821-11 s METAL, CHIP 1K 5% 1/16W  
 R1356 1-216-692-11 s METAL, CHIP 1K 0.5% 1/16W

R1357 1-216-845-11 s METAL, CHIP 100K 5% 1/16W  
 R1358 1-216-833-11 s METAL, CHIP 10K 5% 1/16W [for PAL]  
 R1359 1-216-831-11 s METAL, CHIP 6.8K 5% 1/16W [for PAL]  
 R1360 1-216-845-11 s METAL, CHIP 100K 5% 1/16W  
 R1361 1-216-821-11 s METAL, CHIP 1K 5% 1/16W [for PAL]

R1362 1-216-821-11 s METAL, CHIP 1K 5% 1/16W [for PAL]  
 R1363 1-216-821-11 s METAL, CHIP 1K 5% 1/16W  
 R1364 1-216-821-11 s METAL, CHIP 1K 5% 1/16W  
 R1365 1-216-837-11 s METAL, CHIP 22K 5% 1/16W  
 R1366 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W

R1368 1-216-833-11 s METAL, CHIP 10K 5% 1/16W  
 R1369 1-216-833-11 s METAL, CHIP 10K 5% 1/16W  
 R1370 1-216-809-11 s METAL, CHIP 100 5% 1/16W  
 R1371 1-216-845-11 s METAL, CHIP 100K 5% 1/16W  
 R1372 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W

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Ref. No. or Q'ty	Part No.	SP Description
R1373	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R1374	1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W	
R1376	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R1378	1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W	
R1379	1-216-845-11 s METAL, CHIP 100K 5% 1/16W [for NTSC]	
	1-216-837-11 s METAL, CHIP 22K 5% 1/16W [for PAL]	
R1380	1-216-817-11 s METAL, CHIP 470 5% 1/16W	
R1382	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R1384	1-216-864-11 s METEL, CHIP 0	
R1385	1-216-845-11 s METAL, CHIP 100K 5% 1/16W [for NTSC]	
	1-216-837-11 s METAL, CHIP 22K 5% 1/16W [for PAL]	
R1386	1-216-844-11 s METAL, CHIP 82K 5% 1/16W [for PAL]	
R1387	1-218-702-11 s METAL, CHIP 2.7K 0.5% 1/16W [for NTSC]	
	1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W [for PAL]	
R1388	1-218-699-11 s METAL, CHIP 2K 0.5% 1/16W [for NTSC]	
	1-216-821-11 s METAL, CHIP 1K 5% 1/16W [for PAL]	
R1389	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R1390	1-216-839-11 s METAL, CHIP 33K 5% 1/16W [for NTSC]	
	1-216-837-11 s METAL, CHIP 22K 5% 1/16W [for PAL]	
R1391	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R1392	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R1393	1-218-708-11 s METAL, CHIP 4.7K 0.5% 1/16W	
R1394	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R1395	1-216-809-11 s METAL, CHIP 100 5% 1/16W	
R1396	1-216-809-11 s METAL, CHIP 100 5% 1/16W	
R1397	1-216-839-11 s METAL, CHIP 33K 5% 1/16W	
R1398	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R1399	1-216-839-11 s METAL, CHIP 33K 5% 1/16W	
R1400	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R1401	1-216-821-11 s METAL, CHIP 1K 5% 1/16W	
R1402	1-218-706-11 s METAL, CHIP 3.9K 0.5% 1/16W	
R1403	1-218-867-11 s METAL, CHIP 6.8K 0.5% 1/16W	
R1404	1-218-704-11 s METAL, CHIP 3.3K 0.5% 1/16W	
R1405	1-218-684-11 s METAL, CHIP 470 0.5% 1/16W	
R1406	1-218-684-11 s METAL, CHIP 470 0.5% 1/16W	
R1407	1-218-716-11 s METAL, CHIP 10K 0.5% 1/16W	
R1408	1-218-881-11 s METAL, CHIP 27K 0.5% 1/16W	
R1409	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R1410	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R1411	1-218-739-11 s METAL, CHIP 91K 0.5% 1/16W [for NTSC]	
R1412	1-216-864-11 s METEL, CHIP 0 [for NTSC]	
R1413	1-216-809-11 s METAL, CHIP 100 5% 1/16W	
R1414	1-218-738-11 s METAL, CHIP 82K 0.5% 1/16W [for NTSC]	
	1-218-730-11 s METAL, CHIP 39K 0.5% 1/16W [for PAL]	
R1415	1-216-828-11 s METAL, CHIP 3.9K 5% 1/16W [for PAL]	
R1416	1-216-864-11 s METEL, CHIP 0 [for PAL]	
R1417	1-216-831-11 s METAL, CHIP 6.8K 5% 1/16W [for PAL]	
R1418	1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W [for PAL]	
R1419	1-216-817-11 s METAL, CHIP 470 5% 1/16W [for PAL]	
R1420	1-216-845-11 s METAL, CHIP 100K 5% 1/16W	
R1421	1-216-845-11 s METAL, CHIP 100K 5% 1/16W	

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Ref. No. or Q'ty	Part No.	SP Description
R1422	1-216-817-11 s METAL, CHIP 470 5% 1/16W [for PAL]	
R1423	1-216-833-11 s METAL, CHIP 10K 5% 1/16W [for PAL]	
R1424	1-216-838-11 s METAL, CHIP 27K 5% 1/16W [for PAL]	
R1425	1-216-864-11 s METEL, CHIP 0 [for PAL]	
R1426	1-216-864-11 s METEL, CHIP 0 [for NTSC]	
R1427	1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W	
R1428	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R1430	1-218-296-11 s METAL, CHIP 75K 5% 1/16W [for NTSC]	
	1-218-738-11 s METAL, CHIP 82K 0.5% 1/16W [for PAL]	
R1431	1-216-817-11 s METAL, CHIP 470 5% 1/16W	
R1432	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R1433	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R1434	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R1435	1-216-809-11 s METAL, CHIP 100 5% 1/16W	
R1436	1-218-716-11 s METAL, CHIP 10K 0.5% 1/16W	
R1437	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R1438	1-218-708-11 s METAL, CHIP 4.7K 0.5% 1/16W	
R1439	1-218-881-11 s METAL, CHIP 27K 0.5% 1/16W	
R1440	1-218-873-11 s METAL, CHIP 12K 0.5% 1/16W [for NTSC]	
	1-218-868-11 s METAL, CHIP 7.5K 0.5% 1/16W [for PAL]	
R1441	1-218-700-11 s METAL, CHIP 2.2K 0.5% 1/16W	
R1442	1-218-874-11 s METAL, CHIP 13K 0.5% 1/16W	
R1443	1-218-867-11 s METAL, CHIP 6.8K 0.5% 1/16W	
R1444	1-218-730-11 s METAL, CHIP 39K 0.5% 1/16W	
R1445	1-218-700-11 s METAL, CHIP 2.2K 0.5% 1/16W	
R1446	1-216-821-11 s METAL, CHIP 1K 5% 1/16W	
R1447	1-216-845-11 s METAL, CHIP 100K 5% 1/16W	
R1448	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R1449	1-216-837-11 s METAL, CHIP 22K 5% 1/16W	
R1450	1-216-845-11 s METAL, CHIP 100K 5% 1/16W	
R1451	1-216-836-11 s METAL, CHIP 18K 5% 1/16W	
R1452	1-216-864-11 s METEL, CHIP 0	
R1454	1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W	
R1455	1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W	
R1456	1-218-716-11 s METAL, CHIP 10K 0.5% 1/16W	
R1457	1-216-864-11 s METEL, CHIP 0	
R1458	1-218-716-11 s METAL, CHIP 10K 0.5% 1/16W	
R1459	1-216-845-11 s METAL, CHIP 100K 5% 1/16W	
R1462	1-216-809-11 s METAL, CHIP 100 5% 1/16W	
R1463	1-216-809-11 s METAL, CHIP 100 5% 1/16W	
R1464	1-216-809-11 s METAL, CHIP 100 5% 1/16W	
R1465	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R1467-1478	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R1481-1489	1-216-864-11 s METEL, CHIP 0	
R1490	1-216-809-11 s METAL, CHIP 100 5% 1/16W	
R1491	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R1492	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R1493	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R1494	1-216-864-11 s METEL, CHIP 0	
R1495	1-216-864-11 s METEL, CHIP 0	
R1496	1-216-834-11 s METAL, CHIP 12K 5% 1/16W	
R1497	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	
R1498	1-216-805-11 s METAL, CHIP 47 5% 1/16W	
R1499	1-216-864-11 s METEL, CHIP 0	

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Ref. No. or Q'ty	Part No.	SP Description
R1500	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R1501	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R1502	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R1503	1-216-864-11	s METEL, CHIP 0
R1506	1-216-864-11	s METEL, CHIP 0
R1507-1511	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R1513	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R1514	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R1600	1-216-864-11	s METEL, CHIP 0
R1601	1-216-864-11	s METEL, CHIP 0
R1602	1-216-864-11	s METEL, CHIP 0
R1603	1-216-864-11	s METEL, CHIP 0
R1605	1-216-864-11	s METEL, CHIP 0
R1608	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R1615	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R1616	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R1617	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R1620	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R1623	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R1624	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R1625	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R1628-1633	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R1634	1-216-864-11	s METEL, CHIP 0
R1635	1-216-864-11	s METEL, CHIP 0
R1636	1-216-864-11	s METEL, CHIP 0
R1637	1-216-864-11	s METEL, CHIP 0
R2500	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R2502	1-216-864-11	s METEL, CHIP 0
R2503	1-216-864-11	s METEL, CHIP 0
R2504	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R2505	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R2506	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R2507	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R2508	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R2509	1-216-864-11	s METEL, CHIP 0
R2510	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
RB1-6	1-236-907-11	s NETWORK RESISTOR (CHIP) 100K
RB7-13	1-239-409-11	s NETWORK RESISTOR (CHIP) 47
RB14	1-236-907-11	s NETWORK RESISTOR (CHIP) 100K
RB100	1-236-907-11	s NETWORK RESISTOR (CHIP) 100K
RB101	1-236-907-11	s NETWORK RESISTOR (CHIP) 100K
RB103-107	1-236-907-11	s NETWORK RESISTOR (CHIP) 100K
RB108-121	1-239-409-11	s NETWORK RESISTOR (CHIP) 47
RB122	1-239-711-11	s NETWORK RESISTOR (CHIP) 0 [for PAL]
RB123	1-239-711-11	s NETWORK RESISTOR (CHIP) 0 [for PAL]
RB124	1-239-711-11	s NETWORK RESISTOR (CHIP) 0 [for PAL]
RB125	1-239-711-11	s NETWORK RESISTOR (CHIP) 0 [for PAL]
RB126-132	1-236-907-11	s NETWORK RESISTOR (CHIP) 100K
RB200-210	1-239-409-11	s NETWORK RESISTOR (CHIP) 47
RB300	1-239-711-11	s NETWORK RESISTOR (CHIP) 0

(DPR-62/62P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
RB301	1-236-908-11	s NETWORK RESISTOR (CHIP) 10K
RB302	1-236-908-11	s NETWORK RESISTOR (CHIP) 10K
RB500	1-236-907-11	s NETWORK RESISTOR (CHIP) 100K
RB501	1-236-907-11	s NETWORK RESISTOR (CHIP) 100K
RB505-510	1-239-409-11	s NETWORK RESISTOR (CHIP) 47
RB600	1-239-430-11	s NETWORK RESISTOR (CHIP) 4.7K
RB700	1-239-409-11	s NETWORK RESISTOR (CHIP) 47
RB701	1-239-409-11	s NETWORK RESISTOR (CHIP) 47
RB702	1-239-711-11	s NETWORK RESISTOR (CHIP) 0
RB703	1-236-907-11	s NETWORK RESISTOR (CHIP) 100K
RB704	1-236-907-11	s NETWORK RESISTOR (CHIP) 100K
RB705	1-236-907-11	s NETWORK RESISTOR (CHIP) 100K
RB706	1-239-711-11	s NETWORK RESISTOR (CHIP) 0
RB707	1-239-711-11	s NETWORK RESISTOR (CHIP) 0
RB800	1-239-711-11	s NETWORK RESISTOR (CHIP) 0
RB802	1-239-409-11	s NETWORK RESISTOR (CHIP) 47
RB804	1-239-409-11	s NETWORK RESISTOR (CHIP) 47
RB805	1-236-907-11	s NETWORK RESISTOR (CHIP) 100K
RB806	1-236-907-11	s NETWORK RESISTOR (CHIP) 100K
RB807	1-236-907-11	s NETWORK RESISTOR (CHIP) 100K
RB808	1-239-409-11	s NETWORK RESISTOR (CHIP) 47
RB809	1-239-409-11	s NETWORK RESISTOR (CHIP) 47
RB810	1-239-409-11	s NETWORK RESISTOR (CHIP) 47
RB811	1-239-409-11	s NETWORK RESISTOR (CHIP) 47
RB813-817	1-239-409-11	s NETWORK RESISTOR (CHIP) 47
RB818	1-236-907-11	s NETWORK RESISTOR (CHIP) 100K
RB819	1-239-711-11	s NETWORK RESISTOR (CHIP) 0
RB820	1-239-711-11	s NETWORK RESISTOR (CHIP) 0
RB821	1-239-711-11	s NETWORK RESISTOR (CHIP) 0
RB822	1-239-711-11	s NETWORK RESISTOR (CHIP) 0
RB900-914	1-239-428-11	s NETWORK RESISTOR (CHIP) 3.3K
RB1000	1-236-907-11	s NETWORK RESISTOR (CHIP) 100K
RB1001	1-236-907-11	s NETWORK RESISTOR (CHIP) 100K
RB1003	1-236-907-11	s NETWORK RESISTOR (CHIP) 100K
RB1004	1-239-409-11	s NETWORK RESISTOR (CHIP) 47
RB1100	1-239-711-11	s NETWORK RESISTOR (CHIP) 0
RB1101	1-239-711-11	s NETWORK RESISTOR (CHIP) 0
RB1102	1-239-711-11	s NETWORK RESISTOR (CHIP) 0
RB1103	1-236-907-11	s NETWORK RESISTOR (CHIP) 100K
RB1104	1-236-907-11	s NETWORK RESISTOR (CHIP) 100K
RB1105	1-239-711-11	s NETWORK RESISTOR (CHIP) 0
RB1200-1207	1-239-428-11	s NETWORK RESISTOR (CHIP) 3.3K
RB2500	1-236-907-11	s NETWORK RESISTOR (CHIP) 100K
RB2501-2518	1-239-409-11	s NETWORK RESISTOR (CHIP) 47
RB2519	1-236-907-11	s NETWORK RESISTOR (CHIP) 100K
RB2520	1-236-907-11	s NETWORK RESISTOR (CHIP) 100K

DUS-339 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8272-757-A	o MOUNTED CIRCUIT BOARD, DUS-339
CN432	1-566-759-11	o CONNECTOR 4P, MALE
Q1	8-729-209-07	s TRANSISTOR 2SC4213-B
Q2	8-729-209-07	s TRANSISTOR 2SC4213-B
Q3	8-729-209-07	s TRANSISTOR 2SC4213-B
Q4	8-729-209-07	s TRANSISTOR 2SC4213-B
R1	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R2	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R3	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R4	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R5	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R6	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R7	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R8	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W

EQ-54 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8276-922-A	o MOUNTED CIRCUIT BOARD, EQ-54
1pc	3-691-503-02	o CASE, SHIELD LA
C100	1-162-921-11	s CERAMIC, CHIP 33PF 5% 50V
C101	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C102	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C104	1-162-915-11	s CERAMIC, CHIP 10PF 50V
C105	1-135-215-21	s TANTALUM, CHIP 6.8uF 10% 16V
C106	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C108	1-162-915-11	s CERAMIC, CHIP 10PF 50V
C109	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C110	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C111	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C112	1-162-922-11	s CERAMIC, CHIP 39PF 5% 50V
C113	1-162-967-11	s CERAMIC, CHIP 0.0033uF 10% 50V
C114	1-162-910-11	s CERAMIC, CHIP 5PF 50V
C115	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C116	1-135-215-21	s TANTALUM, CHIP 6.8uF 10% 16V
C117	1-164-505-11	s CERAMIC 2.2uF 16V
C118	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C119	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C120	1-164-505-11	s CERAMIC 2.2uF 16V
C121-126	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C127	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C128	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C129	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C131	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C132	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C133	1-164-505-11	s CERAMIC 2.2uF 16V
C134	1-135-215-21	s TANTALUM, CHIP 6.8uF 10% 16V
C135	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C136	1-135-215-21	s TANTALUM, CHIP 6.8uF 10% 16V
C138	1-135-215-21	s TANTALUM, CHIP 6.8uF 10% 16V
C139	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C140	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C141	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C142	1-162-924-11	s CERAMIC 56PF 5% 50V
C143	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C144	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C145	1-135-215-21	s TANTALUM, CHIP 6.8uF 10% 16V
C146	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C147	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C148	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C149	1-135-215-21	s TANTALUM, CHIP 6.8uF 10% 16V
C150	1-135-145-11	s TANTALUM, CHIP 0.47uF 10% 35V
C151-156	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C157	1-162-969-11	s CERAMIC, CHIP 0.0068uF 10% 25V
C158	1-162-918-11	s CERAMIC, CHIP 18PF 5% 50V
C200	1-162-921-11	s CERAMIC, CHIP 33PF 5% 50V
C201	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C202	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C204	1-162-915-11	s CERAMIC, CHIP 10PF 50V
C205	1-135-215-21	s TANTALUM, CHIP 6.8uF 10% 16V
C206	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C208	1-162-915-11	s CERAMIC, CHIP 10PF 50V
C209	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C210	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C211	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C212	1-162-922-11	s CERAMIC, CHIP 39PF 5% 50V

## (EQ-54 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
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C213	1-162-967-11	s CERAMIC, CHIP 0.0033uF 10% 50V
C214	1-162-910-11	s CERAMIC, CHIP 5PF 50V
C215	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C216	1-135-215-21	s TANTALUM, CHIP 6.8uF 10% 16V
C217	1-164-505-11	s CERAMIC 2.2uF 16V
C218	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C219	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C220	1-164-505-11	s CERAMIC 2.2uF 16V
C221-226	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C227	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C228	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C229	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C231	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C232	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C233	1-164-505-11	s CERAMIC 2.2uF 16V
C234	1-135-215-21	s TANTALUM, CHIP 6.8uF 10% 16V
C235	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C236	1-135-215-21	s TANTALUM, CHIP 6.8uF 10% 16V
C238	1-135-215-21	s TANTALUM, CHIP 6.8uF 10% 16V
C239	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C240	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C241	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C242	1-162-924-11	s CERAMIC 56PF 5% 50V
C243	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C244	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C245	1-135-215-21	s TANTALUM, CHIP 6.8uF 10% 16V
C246	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C247	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C248	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C249	1-135-215-21	s TANTALUM, CHIP 6.8uF 10% 16V
C250	1-135-145-11	s TANTALUM, CHIP 0.47uF 10% 35V
C251	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C254	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C255	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C257	1-162-969-11	s CERAMIC, CHIP 0.0068uF 10% 25V
C258	1-162-918-11	s CERAMIC, CHIP 18PF 5% 50V
C300	1-162-921-11	s CERAMIC, CHIP 33PF 5% 50V
C301	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C302	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C304	1-162-915-11	s CERAMIC, CHIP 10PF 50V
C305	1-135-215-21	s TANTALUM, CHIP 6.8uF 10% 16V
C306	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C308	1-162-915-11	s CERAMIC, CHIP 10PF 50V
C309	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C310	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C311	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C312	1-162-922-11	s CERAMIC, CHIP 39PF 5% 50V
C313	1-162-967-11	s CERAMIC, CHIP 0.0033uF 10% 50V
C314	1-162-910-11	s CERAMIC, CHIP 5PF 50V
C315	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C316	1-135-215-21	s TANTALUM, CHIP 6.8uF 10% 16V
C317	1-164-505-11	s CERAMIC 2.2uF 16V
C318	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C319	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C320	1-164-505-11	s CERAMIC 2.2uF 16V
C321-326	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C327	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C328	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C329	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V

## (EQ-54 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
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C331	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C332	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C333	1-164-505-11	s CERAMIC 2.2uF 16V
C334	1-135-215-21	s TANTALUM, CHIP 6.8uF 10% 16V
C335	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C336	1-135-215-21	s TANTALUM, CHIP 6.8uF 10% 16V
C338	1-135-215-21	s TANTALUM, CHIP 6.8uF 10% 16V
C339	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C340	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C341	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C342	1-162-924-11	s CERAMIC 56PF 5% 50V
C343	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C344	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C345	1-135-215-21	s TANTALUM, CHIP 6.8uF 10% 16V
C346	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C347	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C348	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C349	1-135-215-21	s TANTALUM, CHIP 6.8uF 10% 16V
C350	1-135-145-11	s TANTALUM, CHIP 0.47uF 10% 35V
C351-356	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C357	1-162-969-11	s CERAMIC, CHIP 0.0068uF 10% 25V
C358	1-162-918-11	s CERAMIC, CHIP 18PF 5% 50V
C400	1-162-921-11	s CERAMIC, CHIP 33PF 5% 50V
C401	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C402	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C404	1-162-915-11	s CERAMIC, CHIP 10PF 50V
C405	1-135-215-21	s TANTALUM, CHIP 6.8uF 10% 16V
C406	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C408	1-162-915-11	s CERAMIC, CHIP 10PF 50V
C409	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C410	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C411	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C412	1-162-922-11	s CERAMIC, CHIP 39PF 5% 50V
C413	1-162-967-11	s CERAMIC, CHIP 0.0033uF 10% 50V
C414	1-162-910-11	s CERAMIC, CHIP 5PF 50V
C415	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C416	1-135-215-21	s TANTALUM, CHIP 6.8uF 10% 16V
C417	1-164-505-11	s CERAMIC 2.2uF 16V
C418	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C419	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C420	1-164-505-11	s CERAMIC 2.2uF 16V
C421-426	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C427	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C428	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C429	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C431	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C432	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C433	1-164-505-11	s CERAMIC 2.2uF 16V
C434	1-135-215-21	s TANTALUM, CHIP 6.8uF 10% 16V
C435	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C436	1-135-215-21	s TANTALUM, CHIP 6.8uF 10% 16V
C438	1-135-215-21	s TANTALUM, CHIP 6.8uF 10% 16V
C439	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C440	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C441	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C442	1-162-924-11	s CERAMIC 56PF 5% 50V
C443	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C444	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C445	1-135-215-21	s TANTALUM, CHIP 6.8uF 10% 16V

## (EQ-54 BOARD)

Ref. No. or Q'ty	Part No.	SP Description	Ref. No. or Q'ty	Part No.	SP Description
C446	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C831	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C447	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C832	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C448	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C833	1-109-900-11 s CERAMIC, CHIP 470PF 5% 200V	
C449	1-135-215-21 s TANTALUM, CHIP 6.8uF 10% 16V		C834	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C450	1-135-145-11 s TANTALUM, CHIP 0.47uF 10% 35V		C835	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C451	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C836	1-135-076-21 s TANTALUM, CHIP 1uF 10% 35V	
C452	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C837	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C453	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C838	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C457	1-162-969-11 s CERAMIC, CHIP 0.0068uF 10% 25V		C839	1-164-217-11 s CERAMIC, CHIP 150PF 5% 50V	
C458	1-162-918-11 s CERAMIC, CHIP 18PF 5% 50V		C840	1-104-551-11 s FILM, CHIP 0.01uF 5% 16V	
C500	1-104-823-11 s TANTALUM, CHIP 47uF 20% 16V		C841	1-135-202-21 s TANTALUM, CHIP 22uF 10% 4V	
C501	1-104-823-11 s TANTALUM, CHIP 47uF 20% 16V		C842	1-135-145-11 s TANTALUM, CHIP 0.47uF 10% 35V	
C504	1-135-215-21 s TANTALUM, CHIP 6.8uF 10% 16V		C845	1-107-826-11 s CERAMIC, CHIP 0.1uF 10% 16V	
C520	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C846	1-135-076-21 s TANTALUM, CHIP 1uF 10% 35V	
C521	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C847	1-162-959-11 s CERAMIC, CHIP 330PF 5% 50V	
C530	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C848	1-135-076-21 s TANTALUM, CHIP 1uF 10% 35V	
C531	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C900	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C600	1-104-823-11 s TANTALUM, CHIP 47uF 20% 16V		C901	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C601	1-104-823-11 s TANTALUM, CHIP 47uF 20% 16V		C902	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C604	1-135-215-21 s TANTALUM, CHIP 6.8uF 10% 16V		C905	1-104-823-11 s TANTALUM, CHIP 47uF 20% 16V	
C620	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C906	1-104-823-11 s TANTALUM, CHIP 47uF 20% 16V	
C621	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C907	1-104-823-11 s TANTALUM, CHIP 47uF 20% 16V	
C630	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C908	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C631	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		C909	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C700	1-162-964-11 s CERAMIC, CHIP 0.001uF 10% 50V		C910	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	
C701	1-162-964-11 s CERAMIC, CHIP 0.001uF 10% 50V		CN301	1-564-005-11 o CONNECTOR 6P, MALE	
C702	1-104-823-11 s TANTALUM, CHIP 47uF 20% 16V		CN302	1-566-759-11 o CONNECTOR 4P, MALE	
C710-715	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		CN303	1-506-471-11 s CONNECTOR 6P, MALE	
C800	1-135-145-11 s TANTALUM, CHIP 0.47uF 10% 35V		CN304	1-506-468-11 s CONNECTOR 3P, MALE	
C801	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		CN906	1-774-269-11 s CONNECTOR, BOARD TO BOARD 30P	
C802	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		CN907	1-774-269-11 s CONNECTOR, BOARD TO BOARD 30P	
C803	1-135-201-11 s TANTALUM, CHIP 10uF 20% 6.3V		CT800	1-426-884-11 s TRANSFORMER, BIAS OSCILLATION	
C804	1-104-823-11 s TANTALUM, CHIP 47uF 20% 16V		CV100	1-141-327-11 s CAP, VAR, TRIMMER, CHIP 10PF	
C805	1-104-823-11 s TANTALUM, CHIP 47uF 20% 16V		CV200	1-141-327-11 s CAP, VAR, TRIMMER, CHIP 10PF	
C806	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		CV300	1-141-327-11 s CAP, VAR, TRIMMER, CHIP 10PF	
C807	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		CV400	1-141-327-11 s CAP, VAR, TRIMMER, CHIP 10PF	
C808	1-135-145-11 s TANTALUM, CHIP 0.47uF 10% 35V		CV800	1-141-365-11 s CAP, TRIMMER 100PF	
C809	1-135-070-00 s TANTALUM, CHIP 0.1uF 10% 35V		D100	8-719-029-64 s DIODE RD4.7UH-T1	
C810	1-164-315-11 s CERAMIC, CHIP 470PF 5% 50V		D101	8-719-800-76 s DIODE 1SS226	
C811	1-107-826-11 s CERAMIC, CHIP 0.1uF 10% 16V		D102	8-719-029-61 s DIODE RD3.6UH-T1	
C812	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		D200	8-719-029-64 s DIODE RD4.7UH-T1	
C813	1-104-546-11 s FILM, CHIP 0.0039uF 5% 16V		D201	8-719-800-76 s DIODE 1SS226	
C814	1-164-315-11 s CERAMIC, CHIP 470PF 5% 50V		D202	8-719-029-61 s DIODE RD3.6UH-T1	
C815	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		D300	8-719-029-64 s DIODE RD4.7UH-T1	
C816	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		D301	8-719-800-76 s DIODE 1SS226	
C817	1-162-919-11 s CERAMIC, CHIP 22PF 5% 50V		D302	8-719-029-61 s DIODE RD3.6UH-T1	
C818	1-165-176-11 s CERAMIC, CHIP 0.047uF 10% 16V		D400	8-719-029-64 s DIODE RD4.7UH-T1	
C819	1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V		D401	8-719-800-76 s DIODE 1SS226	
C820	1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V		D402	8-719-029-61 s DIODE RD3.6UH-T1	
C821	1-135-201-11 s TANTALUM, CHIP 10uF 20% 6.3V		D530	8-719-029-62 s DIODE RD3.9UH-T1	
C822	1-135-076-21 s TANTALUM, CHIP 1uF 10% 35V		D630	8-719-029-62 s DIODE RD3.9UH-T1	
C823	1-162-959-11 s CERAMIC, CHIP 330PF 5% 50V		D800	8-719-941-86 s DIODE DAN202U	
C824	1-163-139-00 s CERAMIC, CHIP 820PF 5% 50V		D801	8-719-941-86 s DIODE DAN202U	
C825	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		IC100	8-759-260-55 s IC TLC272CPW-E05	
C826	1-109-899-11 s CERAMIC, CHIP 330uF 5% 200V		IC101	8-752-073-98 s IC CXA3034Q	
C827	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		IC102	8-759-260-55 s IC TLC272CPW-E05	
C828	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V		IC103	8-752-066-44 s IC CXA1805Q	
C829	1-135-164-21 s TANTALUM, CHIP 22uF 10% 16V				
C830	1-135-201-11 s TANTALUM, CHIP 10uF 20% 6.3V				

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Ref. No. or Q'ty	Part No.	SP Description	Ref. No. or Q'ty	Part No.	SP Description
IC104	8-759-079-49 s	IC TC74VHC04FS(EL)	Q101	8-729-140-47 s	TRANSISTOR 2SC3735-B34
IC105	8-752-371-18 s	IC CXD2302Q	Q110	8-729-027-54 s	TRANSISTOR DTC124XKA-T146
IC106	8-759-079-97 s	IC TC74VHC374FS(EL)	Q200	8-729-029-14 s	TRANSISTOR DTC144EUA-T106
IC200	8-759-260-55 s	IC TLC272CPW-E05	Q201	8-729-140-47 s	TRANSISTOR 2SC3735-B34
IC201	8-752-073-98 s	IC CXA3034Q	Q210	8-729-027-54 s	TRANSISTOR DTC124XKA-T146
IC203	8-752-066-44 s	IC CXA1805Q	Q300	8-729-029-14 s	TRANSISTOR DTC144EUA-T106
IC205	8-752-371-18 s	IC CXD2302Q	Q301	8-729-140-47 s	TRANSISTOR 2SC3735-B34
IC206	8-759-079-97 s	IC TC74VHC374FS(EL)	Q310	8-729-027-54 s	TRANSISTOR DTC124XKA-T146
IC300	8-759-260-55 s	IC TLC272CPW-E05	Q400	8-729-029-14 s	TRANSISTOR DTC144EUA-T106
IC301	8-752-073-98 s	IC CXA3034Q	Q401	8-729-140-47 s	TRANSISTOR 2SC3735-B34
IC302	8-759-260-55 s	IC TLC272CPW-E05	Q410	8-729-027-54 s	TRANSISTOR DTC124XKA-T146
IC303	8-752-066-44 s	IC CXA1805Q	Q500	8-729-028-91 s	TRANSISTOR DTA144EUA-T106
IC304	8-759-079-49 s	IC TC74VHC04FS(EL)	Q501	8-729-029-14 s	TRANSISTOR DTC144EUA-T106
IC305	8-752-371-18 s	IC CXD2302Q	Q502	8-729-824-34 s	TRANSISTOR 2SJ187
IC306	8-759-079-97 s	IC TC74VHC374FS(EL)	Q503	8-729-145-14 s	TRANSISTOR 2SK1483
IC400	8-759-260-55 s	IC TLC272CPW-E05	Q504	8-729-905-09 s	TRANSISTOR DTA144WUT106
IC401	8-752-073-98 s	IC CXA3034Q	Q505	8-729-905-15 s	TRANSISTOR DTC144WUT106
IC403	8-752-066-44 s	IC CXA1805Q	Q506	8-729-824-34 s	TRANSISTOR 2SJ187
IC405	8-752-371-18 s	IC CXD2302Q	Q507	8-729-145-14 s	TRANSISTOR 2SK1483
IC406	8-759-079-97 s	IC TC74VHC374FS(EL)	Q508	8-729-824-34 s	TRANSISTOR 2SJ187
IC500	8-759-173-13 s	IC CXD8815Q	Q600	8-729-028-91 s	TRANSISTOR DTA144EUA-T106
IC501	8-759-635-27 s	IC M62352GP	Q601	8-729-029-14 s	TRANSISTOR DTC144EUA-T106
IC600	8-759-173-13 s	IC CXD8815Q	Q602	8-729-824-34 s	TRANSISTOR 2SJ187
IC601	8-759-635-27 s	IC M62352GP	Q603	8-729-145-14 s	TRANSISTOR 2SK1483
IC700	8-759-269-09 s	IC SN74HCT04ANS	Q604	8-729-905-09 s	TRANSISTOR DTA144WUT106
IC701	8-759-925-85 s	IC SN74HC32ANS	Q605	8-729-905-15 s	TRANSISTOR DTC144WUT106
IC702	8-759-926-67 s	IC SN74HC374ANS	Q606	8-729-824-34 s	TRANSISTOR 2SJ187
IC705	8-759-926-29 s	IC SN74HC175ANS	Q607	8-729-145-14 s	TRANSISTOR 2SK1483
IC706	8-759-925-76 s	IC SN74HC08ANS	Q608	8-729-824-34 s	TRANSISTOR 2SJ187
IC708	8-759-008-50 s	IC MC74HC112F	Q700	8-729-028-91 s	TRANSISTOR DTA144EUA-T106
IC800	8-759-079-49 s	IC TC74VHC04FS(EL)	Q701	8-729-028-91 s	TRANSISTOR DTA144EUA-T106
IC801	8-759-710-28 s	IC NJM4565M-A	Q702	8-729-029-14 s	TRANSISTOR DTC144EUA-T106
IC802	8-759-079-46 s	IC TC74VHC00FS(EL)	Q703	8-729-120-53 s	TRANSISTOR 2SJ132-Z
IC803	8-759-710-28 s	IC NJM4565M-A	Q704	8-729-118-70 s	TRANSISTOR 2SK739-Z
IC804	8-759-710-28 s	IC NJM4565M-A	Q800	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
IC805	8-759-066-61 s	IC TC4053BFS	Q801	8-729-209-07 s	TRANSISTOR 2SC4213-B
IC806	8-759-710-28 s	IC NJM4565M-A	Q802	8-729-105-08 s	TRANSISTOR 2SA1330
L100	1-410-658-31 s	INDUCTOR, CHIP 220uH	Q803	8-729-029-14 s	TRANSISTOR DTC144EUA-T106
L101	1-410-991-11 s	INDUCTOR CHIP 0.68uH	Q804	8-729-824-34 s	TRANSISTOR 2SJ187
L102	1-410-987-11 s	INDUCTOR CHIP 0.33uH	Q805	8-729-105-36 s	TRANSISTOR 2SC3360-N15
L200	1-410-658-31 s	INDUCTOR, CHIP 220uH	Q806	8-729-105-36 s	TRANSISTOR 2SC3360-N15
L201	1-410-991-11 s	INDUCTOR CHIP 0.68uH	Q807	8-729-209-07 s	TRANSISTOR 2SC4213-B
L202	1-410-987-11 s	INDUCTOR CHIP 0.33uH	Q808	8-729-209-07 s	TRANSISTOR 2SC4213-B
L300	1-410-658-31 s	INDUCTOR, CHIP 220uH	Q809	8-729-105-36 s	TRANSISTOR 2SC3360-N15
L301	1-410-991-11 s	INDUCTOR CHIP 0.68uH	Q810	8-729-105-36 s	TRANSISTOR 2SC3360-N15
L302	1-410-987-11 s	INDUCTOR CHIP 0.33uH	Q811	8-729-209-07 s	TRANSISTOR 2SC4213-B
L400	1-410-658-31 s	INDUCTOR, CHIP 220uH	Q812	8-729-209-07 s	TRANSISTOR 2SC4213-B
L401	1-410-991-11 s	INDUCTOR CHIP 0.68uH	R100	1-211-977-11 s	METAL, CHIP 22 0.5% 1/16W
L402	1-410-987-11 s	INDUCTOR CHIP 0.33uH	R101	1-211-969-11 s	METAL, CHIP 10 0.5% 1/16W
L800	1-409-579-11 s	COIL, CHOKE 8.2uH	R102	1-211-969-11 s	METAL, CHIP 10 0.5% 1/16W
L801	1-409-579-11 s	COIL, CHOKE 8.2uH	R103	1-218-851-11 s	METAL, CHIP 1.5K 0.5% 1/16W
L802	1-408-785-21 s	INDUCTOR, CHIP 47uH	R104	1-218-716-11 s	METAL, CHIP 10K 0.5% 1/16W
L900	1-409-579-11 s	COIL, CHOKE 8.2uH	R106	1-218-851-11 s	METAL, CHIP 1.5K 0.5% 1/16W
L901	1-409-579-11 s	COIL, CHOKE 8.2uH	R109	1-218-716-11 s	METAL, CHIP 10K 0.5% 1/16W
L902	1-409-579-11 s	COIL, CHOKE 8.2uH	R110	1-218-684-11 s	METAL, CHIP 470 0.5% 1/16W
LV800	1-410-853-21 s	COIL, VAR 4.5uH	R111	1-218-684-11 s	METAL, CHIP 470 0.5% 1/16W
Q100	8-729-029-14 s	TRANSISTOR DTC144EUA-T106	R112	1-218-836-11 s	METAL, CHIP 360 0.5% 1/16W
			R113	1-218-698-11 s	METAL, CHIP 1.8K 0.5% 1/16W

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Ref. No.	or Q'ty	Part No.	SP Description	Ref. No.	or Q'ty	Part No.	SP Description
R114	1	218-698-11	s METAL, CHIP 1.8K 0.5% 1/16W	R214	1	218-698-11	s METAL, CHIP 1.8K 0.5% 1/16W
R115	1	218-698-11	s METAL, CHIP 1.8K 0.5% 1/16W	R215	1	218-698-11	s METAL, CHIP 1.8K 0.5% 1/16W
R116	1	211-969-11	s METAL, CHIP 10 0.5% 1/16W	R216	1	211-969-11	s METAL, CHIP 10 0.5% 1/16W
R117	1	218-844-11	s METAL, CHIP 750 0.5% 1/16W	R217	1	218-844-11	s METAL, CHIP 750 0.5% 1/16W
R118	1	218-668-11	s METAL, CHIP 100 0.5% 1/16W	R218	1	218-668-11	s METAL, CHIP 100 0.5% 1/16W
R119	1	218-836-11	s METAL, CHIP 360 0.5% 1/16W	R219	1	218-836-11	s METAL, CHIP 360 0.5% 1/16W
R121	1	218-668-11	s METAL, CHIP 100 0.5% 1/16W	R221	1	218-668-11	s METAL, CHIP 100 0.5% 1/16W
R122	1	218-668-11	s METAL, CHIP 100 0.5% 1/16W	R222	1	218-668-11	s METAL, CHIP 100 0.5% 1/16W
R123	1	218-856-11	s METAL, CHIP 2.4K 0.5% 1/16W	R223	1	218-856-11	s METAL, CHIP 2.4K 0.5% 1/16W
R125	1	218-710-11	s METAL, CHIP 5.6K 0.5% 1/16W	R225	1	218-710-11	s METAL, CHIP 5.6K 0.5% 1/16W
R126	1	218-897-11	s METAL, CHIP 120K 0.5% 1/16W	R226	1	218-897-11	s METAL, CHIP 120K 0.5% 1/16W
R128	1	218-668-11	s METAL, CHIP 100 0.5% 1/16W	R228	1	218-668-11	s METAL, CHIP 100 0.5% 1/16W
R129	1	218-864-11	s METAL, CHIP 5.1K 0.5% 1/16W	R229	1	218-864-11	s METAL, CHIP 5.1K 0.5% 1/16W
R130	1	218-881-11	s METAL, CHIP 27K 0.5% 1/16W	R230	1	218-881-11	s METAL, CHIP 27K 0.5% 1/16W
R131	1	218-851-11	s METAL, CHIP 1.5K 0.5% 1/16W	R231	1	218-851-11	s METAL, CHIP 1.5K 0.5% 1/16W
R132	1	218-851-11	s METAL, CHIP 1.5K 0.5% 1/16W	R232	1	218-851-11	s METAL, CHIP 1.5K 0.5% 1/16W
R133	1	218-707-11	s METAL, CHIP 4.3K 0.5% 1/16W	R233	1	218-707-11	s METAL, CHIP 4.3K 0.5% 1/16W
R134	1	218-702-11	s METAL, CHIP 2.7K 0.5% 1/16W	R234	1	218-702-11	s METAL, CHIP 2.7K 0.5% 1/16W
R135	1	218-716-11	s METAL, CHIP 10K 0.5% 1/16W	R235	1	218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R136	1	218-698-11	s METAL, CHIP 1.8K 0.5% 1/16W	R236	1	218-698-11	s METAL, CHIP 1.8K 0.5% 1/16W
R137	1	218-698-11	s METAL, CHIP 1.8K 0.5% 1/16W	R237	1	218-698-11	s METAL, CHIP 1.8K 0.5% 1/16W
R138	1	211-969-11	s METAL, CHIP 10 0.5% 1/16W	R238	1	211-969-11	s METAL, CHIP 10 0.5% 1/16W
R139	1	218-692-11	s METAL, CHIP 1K 0.5% 1/16W	R239	1	218-692-11	s METAL, CHIP 1K 0.5% 1/16W
R140	1	218-851-11	s METAL, CHIP 1.5K 0.5% 1/16W	R240	1	218-851-11	s METAL, CHIP 1.5K 0.5% 1/16W
R141	1	218-660-11	s METAL, CHIP 47 0.5% 1/16W	R241	1	218-660-11	s METAL, CHIP 47 0.5% 1/16W
R142	1	218-660-11	s METAL, CHIP 47 0.5% 1/16W	R242	1	218-660-11	s METAL, CHIP 47 0.5% 1/16W
R143	1	218-752-11	s METAL, CHIP 330K 0.5% 1/16W	R243	1	218-752-11	s METAL, CHIP 330K 0.5% 1/16W
R144	1	218-752-11	s METAL, CHIP 330K 0.5% 1/16W	R244	1	218-752-11	s METAL, CHIP 330K 0.5% 1/16W
R145	1	218-694-11	s METAL, CHIP 1.2K 0.5% 1/16W	R245	1	218-694-11	s METAL, CHIP 1.2K 0.5% 1/16W
R146	1	218-716-11	s METAL, CHIP 10K 0.5% 1/16W	R246	1	218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R147	1	218-692-11	s METAL, CHIP 1K 0.5% 1/16W	R247	1	218-692-11	s METAL, CHIP 1K 0.5% 1/16W
R148	1	218-716-11	s METAL, CHIP 10K 0.5% 1/16W	R248	1	218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R149	1	218-840-11	s METAL, CHIP 510 0.5% 1/16W	R249	1	218-840-11	s METAL, CHIP 510 0.5% 1/16W
R150	1	218-883-11	s METAL, CHIP 33K 0.5% 1/16W	R250	1	218-883-11	s METAL, CHIP 33K 0.5% 1/16W
R151	1	211-969-11	s METAL, CHIP 10 0.5% 1/16W	R251	1	211-969-11	s METAL, CHIP 10 0.5% 1/16W
R152	1	218-836-11	s METAL, CHIP 360 0.5% 1/16W	R252	1	218-836-11	s METAL, CHIP 360 0.5% 1/16W
R153	1	218-868-11	s METAL, CHIP 7.5K 0.5% 1/16W	R253	1	218-868-11	s METAL, CHIP 7.5K 0.5% 1/16W
R155	1	211-990-11	s METAL, CHIP 75 0.5% 1/16W	R255	1	211-990-11	s METAL, CHIP 75 0.5% 1/16W
R157	1	218-838-11	s METAL, CHIP 430 0.5% 1/16W	R257	1	218-838-11	s METAL, CHIP 430 0.5% 1/16W
R158	1	211-969-11	s METAL, CHIP 10 0.5% 1/16W	R258	1	211-969-11	s METAL, CHIP 10 0.5% 1/16W
R160	1	218-752-11	s METAL, CHIP 330K 0.5% 1/16W	R260	1	218-752-11	s METAL, CHIP 330K 0.5% 1/16W
R161	1	218-752-11	s METAL, CHIP 330K 0.5% 1/16W	R261	1	218-752-11	s METAL, CHIP 330K 0.5% 1/16W
R163	1	211-977-11	s METAL, CHIP 22 0.5% 1/16W	R263	1	211-977-11	s METAL, CHIP 22 0.5% 1/16W
R164	1	218-874-11	s METAL, CHIP 13K 0.5% 1/16W	R264	1	218-874-11	s METAL, CHIP 13K 0.5% 1/16W
R165	1	218-692-11	s METAL, CHIP 1K 0.5% 1/16W	R265	1	218-692-11	s METAL, CHIP 1K 0.5% 1/16W
R166	1	211-969-11	s METAL, CHIP 10 0.5% 1/16W	R266	1	211-969-11	s METAL, CHIP 10 0.5% 1/16W
R167	1	218-668-11	s METAL, CHIP 100 0.5% 1/16W	R267	1	218-668-11	s METAL, CHIP 100 0.5% 1/16W
R169	1	216-603-11	s METAL, CHIP 10 0.5% 1/10W	R269	1	216-603-11	s METAL, CHIP 10 0.5% 1/10W
R200	1	211-977-11	s METAL, CHIP 22 0.5% 1/16W	R300	1	211-977-11	s METAL, CHIP 22 0.5% 1/16W
R201	1	211-969-11	s METAL, CHIP 10 0.5% 1/16W	R301	1	211-969-11	s METAL, CHIP 10 0.5% 1/16W
R202	1	211-969-11	s METAL, CHIP 10 0.5% 1/16W	R302	1	211-969-11	s METAL, CHIP 10 0.5% 1/16W
R203	1	218-851-11	s METAL, CHIP 1.5K 0.5% 1/16W	R303	1	218-851-11	s METAL, CHIP 1.5K 0.5% 1/16W
R204	1	218-716-11	s METAL, CHIP 10K 0.5% 1/16W	R304	1	218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R206	1	218-851-11	s METAL, CHIP 1.5K 0.5% 1/16W	R306	1	218-851-11	s METAL, CHIP 1.5K 0.5% 1/16W
R209	1	218-716-11	s METAL, CHIP 10K 0.5% 1/16W	R309	1	218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R210	1	218-684-11	s METAL, CHIP 470 0.5% 1/16W	R310	1	218-684-11	s METAL, CHIP 470 0.5% 1/16W
R211	1	218-684-11	s METAL, CHIP 470 0.5% 1/16W	R311	1	218-684-11	s METAL, CHIP 470 0.5% 1/16W
R212	1	218-836-11	s METAL, CHIP 360 0.5% 1/16W	R312	1	218-836-11	s METAL, CHIP 360 0.5% 1/16W
R213	1	218-698-11	s METAL, CHIP 1.8K 0.5% 1/16W	R313	1	218-698-11	s METAL, CHIP 1.8K 0.5% 1/16W

## (EQ-54 BOARD)

Ref. No. or Q'ty	Part No.	SP Description	Ref. No. or Q'ty	Part No.	SP Description
R314	1-218-698-11	s METAL, CHIP 1.8K 0.5% 1/16W	R414	1-218-698-11	s METAL, CHIP 1.8K 0.5% 1/16W
R315	1-218-698-11	s METAL, CHIP 1.8K 0.5% 1/16W	R415	1-218-698-11	s METAL, CHIP 1.8K 0.5% 1/16W
R316	1-211-969-11	s METAL, CHIP 10 0.5% 1/16W	R416	1-211-969-11	s METAL, CHIP 10 0.5% 1/16W
R317	1-218-844-11	s METAL, CHIP 750 0.5% 1/16W	R417	1-218-844-11	s METAL, CHIP 750 0.5% 1/16W
R318	1-218-668-11	s METAL, CHIP 100 0.5% 1/16W	R418	1-218-668-11	s METAL, CHIP 100 0.5% 1/16W
R319	1-218-836-11	s METAL, CHIP 360 0.5% 1/16W	R419	1-218-836-11	s METAL, CHIP 360 0.5% 1/16W
R321	1-218-668-11	s METAL, CHIP 100 0.5% 1/16W	R421	1-218-668-11	s METAL, CHIP 100 0.5% 1/16W
R322	1-218-668-11	s METAL, CHIP 100 0.5% 1/16W	R422	1-218-668-11	s METAL, CHIP 100 0.5% 1/16W
R323	1-218-856-11	s METAL, CHIP 2.4K 0.5% 1/16W	R423	1-218-856-11	s METAL, CHIP 2.4K 0.5% 1/16W
R325	1-218-710-11	s METAL, CHIP 5.6K 0.5% 1/16W	R425	1-218-710-11	s METAL, CHIP 5.6K 0.5% 1/16W
R326	1-218-897-11	s METAL, CHIP 120K 0.5% 1/16W	R426	1-218-897-11	s METAL, CHIP 120K 0.5% 1/16W
R328	1-218-668-11	s METAL, CHIP 100 0.5% 1/16W	R428	1-218-668-11	s METAL, CHIP 100 0.5% 1/16W
R329	1-218-864-11	s METAL, CHIP 5.1K 0.5% 1/16W	R429	1-218-864-11	s METAL, CHIP 5.1K 0.5% 1/16W
R330	1-218-881-11	s METAL, CHIP 27K 0.5% 1/16W	R430	1-218-881-11	s METAL, CHIP 27K 0.5% 1/16W
R331	1-218-851-11	s METAL, CHIP 1.5K 0.5% 1/16W	R431	1-218-851-11	s METAL, CHIP 1.5K 0.5% 1/16W
R332	1-218-851-11	s METAL, CHIP 1.5K 0.5% 1/16W	R432	1-218-851-11	s METAL, CHIP 1.5K 0.5% 1/16W
R333	1-218-707-11	s METAL, CHIP 4.3K 0.5% 1/16W	R433	1-218-707-11	s METAL, CHIP 4.3K 0.5% 1/16W
R334	1-218-702-11	s METAL, CHIP 2.7K 0.5% 1/16W	R434	1-218-702-11	s METAL, CHIP 2.7K 0.5% 1/16W
R335	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W	R435	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R336	1-218-698-11	s METAL, CHIP 1.8K 0.5% 1/16W	R436	1-218-698-11	s METAL, CHIP 1.8K 0.5% 1/16W
R337	1-218-698-11	s METAL, CHIP 1.8K 0.5% 1/16W	R437	1-218-698-11	s METAL, CHIP 1.8K 0.5% 1/16W
R338	1-211-969-11	s METAL, CHIP 10 0.5% 1/16W	R438	1-211-969-11	s METAL, CHIP 10 0.5% 1/16W
R339	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W	R439	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W
R340	1-218-851-11	s METAL, CHIP 1.5K 0.5% 1/16W	R440	1-218-851-11	s METAL, CHIP 1.5K 0.5% 1/16W
R341	1-218-660-11	s METAL, CHIP 47 0.5% 1/16W	R441	1-218-660-11	s METAL, CHIP 47 0.5% 1/16W
R342	1-218-660-11	s METAL, CHIP 47 0.5% 1/16W	R442	1-218-660-11	s METAL, CHIP 47 0.5% 1/16W
R343	1-218-752-11	s METAL, CHIP 330K 0.5% 1/16W	R443	1-218-752-11	s METAL, CHIP 330K 0.5% 1/16W
R344	1-218-752-11	s METAL, CHIP 330K 0.5% 1/16W	R444	1-218-752-11	s METAL, CHIP 330K 0.5% 1/16W
R345	1-218-694-11	s METAL, CHIP 1.2K 0.5% 1/16W	R445	1-218-694-11	s METAL, CHIP 1.2K 0.5% 1/16W
R346	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W	R446	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R347	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W	R447	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W
R348	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W	R448	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R349	1-218-840-11	s METAL, CHIP 510 0.5% 1/16W	R449	1-218-840-11	s METAL, CHIP 510 0.5% 1/16W
R350	1-218-883-11	s METAL, CHIP 33K 0.5% 1/16W	R450	1-218-883-11	s METAL, CHIP 33K 0.5% 1/16W
R351	1-211-969-11	s METAL, CHIP 10 0.5% 1/16W	R451	1-211-969-11	s METAL, CHIP 10 0.5% 1/16W
R352	1-218-836-11	s METAL, CHIP 360 0.5% 1/16W	R452	1-218-836-11	s METAL, CHIP 360 0.5% 1/16W
R353	1-218-868-11	s METAL, CHIP 7.5K 0.5% 1/16W	R453	1-218-868-11	s METAL, CHIP 7.5K 0.5% 1/16W
R355	1-211-990-11	s METAL, CHIP 75 0.5% 1/16W	R455	1-211-990-11	s METAL, CHIP 75 0.5% 1/16W
R357	1-218-838-11	s METAL, CHIP 430 0.5% 1/16W	R457	1-218-838-11	s METAL, CHIP 430 0.5% 1/16W
R358	1-211-969-11	s METAL, CHIP 10 0.5% 1/16W	R458	1-211-969-11	s METAL, CHIP 10 0.5% 1/16W
R360	1-218-752-11	s METAL, CHIP 330K 0.5% 1/16W	R460	1-218-752-11	s METAL, CHIP 330K 0.5% 1/16W
R361	1-218-752-11	s METAL, CHIP 330K 0.5% 1/16W	R461	1-218-752-11	s METAL, CHIP 330K 0.5% 1/16W
R363	1-211-977-11	s METAL, CHIP 22 0.5% 1/16W	R463	1-211-977-11	s METAL, CHIP 22 0.5% 1/16W
R364	1-218-874-11	s METAL, CHIP 13K 0.5% 1/16W	R464	1-218-874-11	s METAL, CHIP 13K 0.5% 1/16W
R365	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W	R465	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W
R366	1-211-969-11	s METAL, CHIP 10 0.5% 1/16W	R466	1-211-969-11	s METAL, CHIP 10 0.5% 1/16W
R367	1-218-668-11	s METAL, CHIP 100 0.5% 1/16W	R467	1-218-668-11	s METAL, CHIP 100 0.5% 1/16W
R369	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W	R469	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R400	1-211-977-11	s METAL, CHIP 22 0.5% 1/16W	R500	1-218-740-11	s METAL, CHIP 100K 0.5% 1/16W
R401	1-211-969-11	s METAL, CHIP 10 0.5% 1/16W	R501	1-218-740-11	s METAL, CHIP 100K 0.5% 1/16W
R402	1-211-969-11	s METAL, CHIP 10 0.5% 1/16W	R502	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W
R403	1-218-851-11	s METAL, CHIP 1.5K 0.5% 1/16W	R503	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W
R404	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W	R504	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R406	1-218-851-11	s METAL, CHIP 1.5K 0.5% 1/16W	R505	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R409	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W	R506	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R410	1-218-684-11	s METAL, CHIP 470 0.5% 1/16W	R507	1-218-740-11	s METAL, CHIP 100K 0.5% 1/16W
R411	1-218-684-11	s METAL, CHIP 470 0.5% 1/16W	R508	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W
R412	1-218-836-11	s METAL, CHIP 360 0.5% 1/16W	R509	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W
R413	1-218-698-11	s METAL, CHIP 1.8K 0.5% 1/16W	R510	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W

## (EQ-54 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
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R511	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R512	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R513	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R520	1-218-732-11	s METAL, CHIP 47K 0.5% 1/16W
R521	1-218-732-11	s METAL, CHIP 47K 0.5% 1/16W
R530	1-218-837-11	s METAL, CHIP 390 0.5% 1/16W
R531	1-218-870-11	s METAL, CHIP 9.1K 0.5% 1/16W
R532	1-218-706-11	s METAL, CHIP 3.9K 0.5% 1/16W
R533	1-218-870-11	s METAL, CHIP 9.1K 0.5% 1/16W
R534	1-218-870-11	s METAL, CHIP 9.1K 0.5% 1/16W
R535	1-218-706-11	s METAL, CHIP 3.9K 0.5% 1/16W
R536	1-218-870-11	s METAL, CHIP 9.1K 0.5% 1/16W
R537-542	1-218-695-11	s METAL, CHIP 1.3K 0.5% 1/16W
R543	1-218-870-11	s METAL, CHIP 9.1K 0.5% 1/16W
R544	1-218-706-11	s METAL, CHIP 3.9K 0.5% 1/16W
R545	1-218-870-11	s METAL, CHIP 9.1K 0.5% 1/16W
R546	1-218-870-11	s METAL, CHIP 9.1K 0.5% 1/16W
R547	1-218-706-11	s METAL, CHIP 3.9K 0.5% 1/16W
R548	1-218-870-11	s METAL, CHIP 9.1K 0.5% 1/16W
R549-554	1-218-695-11	s METAL, CHIP 1.3K 0.5% 1/16W
R600	1-218-740-11	s METAL, CHIP 100K 0.5% 1/16W
R601	1-218-740-11	s METAL, CHIP 100K 0.5% 1/16W
R602	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W
R603	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W
R604	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R605	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R606	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R607	1-218-740-11	s METAL, CHIP 100K 0.5% 1/16W
R608	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W
R609	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W
R610	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W
R611	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R612	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R613	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R620	1-218-732-11	s METAL, CHIP 47K 0.5% 1/16W
R621	1-218-732-11	s METAL, CHIP 47K 0.5% 1/16W
R630	1-218-837-11	s METAL, CHIP 390 0.5% 1/16W
R631	1-218-870-11	s METAL, CHIP 9.1K 0.5% 1/16W
R632	1-218-706-11	s METAL, CHIP 3.9K 0.5% 1/16W
R633	1-218-870-11	s METAL, CHIP 9.1K 0.5% 1/16W
R634	1-218-870-11	s METAL, CHIP 9.1K 0.5% 1/16W
R635	1-218-706-11	s METAL, CHIP 3.9K 0.5% 1/16W
R636	1-218-870-11	s METAL, CHIP 9.1K 0.5% 1/16W
R637-642	1-218-695-11	s METAL, CHIP 1.3K 0.5% 1/16W
R643	1-218-870-11	s METAL, CHIP 9.1K 0.5% 1/16W
R644	1-218-706-11	s METAL, CHIP 3.9K 0.5% 1/16W
R645	1-218-870-11	s METAL, CHIP 9.1K 0.5% 1/16W
R646	1-218-870-11	s METAL, CHIP 9.1K 0.5% 1/16W
R647	1-218-706-11	s METAL, CHIP 3.9K 0.5% 1/16W
R648	1-218-870-11	s METAL, CHIP 9.1K 0.5% 1/16W
R649-654	1-218-695-11	s METAL, CHIP 1.3K 0.5% 1/16W
R700	1-218-668-11	s METAL, CHIP 100 0.5% 1/16W
R701	1-218-668-11	s METAL, CHIP 100 0.5% 1/16W
R702-707	1-218-740-11	s METAL, CHIP 100K 0.5% 1/16W
R708	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W
R709	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W
R710	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R711	1-218-740-11	s METAL, CHIP 100K 0.5% 1/16W
R712	1-218-740-11	s METAL, CHIP 100K 0.5% 1/16W

## (EQ-54 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
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R713	1-218-740-11	s METAL, CHIP 100K 0.5% 1/16W
R800	1-218-668-11	s METAL, CHIP 100 0.5% 1/16W
R801	1-218-864-11	s METAL, CHIP 0
R802	1-218-708-11	s METAL, CHIP 4.7K 0.5% 1/16W
R803	1-218-708-11	s METAL, CHIP 4.7K 0.5% 1/16W
R804	1-218-708-11	s METAL, CHIP 4.7K 0.5% 1/16W
R805	1-218-748-11	s METAL, CHIP 220K 0.5% 1/16W
R806	1-218-708-11	s METAL, CHIP 4.7K 0.5% 1/16W
R807	1-218-748-11	s METAL, CHIP 220K 0.5% 1/16W
R808	1-218-724-11	s METAL, CHIP 22K 0.5% 1/16W
R809	1-218-724-11	s METAL, CHIP 22K 0.5% 1/16W
R810	1-218-883-11	s METAL, CHIP 33K 0.5% 1/16W
R811	1-218-740-11	s METAL, CHIP 100K 0.5% 1/16W
R812	1-218-724-11	s METAL, CHIP 22K 0.5% 1/16W
R813	1-218-883-11	s METAL, CHIP 33K 0.5% 1/16W
R814	1-218-748-11	s METAL, CHIP 220K 0.5% 1/16W
R815	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R816	1-218-722-11	s METAL, CHIP 18K 0.5% 1/16W
R817	1-218-732-11	s METAL, CHIP 47K 0.5% 1/16W
R818	1-218-708-11	s METAL, CHIP 4.7K 0.5% 1/16W
R819	1-218-881-11	s METAL, CHIP 27K 0.5% 1/16W
R820	1-218-748-11	s METAL, CHIP 220K 0.5% 1/16W
R821	1-218-724-11	s METAL, CHIP 22K 0.5% 1/16W
R822	1-218-698-11	s METAL, CHIP 1.8K 0.5% 1/16W
R823	1-216-117-00	s METAL, CHIP 680K 5% 1/10W
R824	1-218-732-11	s METAL, CHIP 47K 0.5% 1/16W
R825	1-218-732-11	s METAL, CHIP 47K 0.5% 1/16W
R826	1-218-740-11	s METAL, CHIP 100K 0.5% 1/16W
R827	1-218-708-11	s METAL, CHIP 4.7K 0.5% 1/16W
R828	1-218-740-11	s METAL, CHIP 100K 0.5% 1/16W
R829	1-218-700-11	s METAL, CHIP 2.2K 0.5% 1/16W
R830	1-218-700-11	s METAL, CHIP 2.2K 0.5% 1/16W
R831	1-216-298-00	s METAL 2.2 5% 1/10W
R832	1-216-298-00	s METAL 2.2 5% 1/10W
R833	1-218-700-11	s METAL, CHIP 2.2K 0.5% 1/16W
R834	1-218-700-11	s METAL, CHIP 2.2K 0.5% 1/16W
R835	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R836	1-218-668-11	s METAL, CHIP 100 0.5% 1/16W
R837	1-218-714-11	s METAL, CHIP 8.2K 0.5% 1/16W
R838	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R839	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R840	1-218-750-11	s METAL, CHIP 270K 0.5% 1/16W
R841	1-218-676-11	s METAL, CHIP 220 0.5% 1/16W
R842	1-218-702-11	s METAL, CHIP 2.7K 0.5% 1/16W
R843	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R844	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W
R845	1-218-833-11	s METAL, CHIP 270 0.5% 1/16W
R846	1-218-708-11	s METAL, CHIP 4.7K 0.5% 1/16W
R847	1-218-740-11	s METAL, CHIP 100K 0.5% 1/16W
R848	1-218-732-11	s METAL, CHIP 47K 0.5% 1/16W
R849	1-218-732-11	s METAL, CHIP 47K 0.5% 1/16W
R850	1-218-708-11	s METAL, CHIP 4.7K 0.5% 1/16W
R852	1-218-708-11	s METAL, CHIP 4.7K 0.5% 1/16W
R853	1-216-864-11	s METAL, CHIP 0
RB100-104	1-239-412-11	s NETWORK RESISTOR (CHIP) 10Ω
RB200-204	1-239-412-11	s NETWORK RESISTOR (CHIP) 10Ω

(EQ-54 BOARD)

Ref. No.  
or Q'ty Part No. SP Description

RB300-304  
1-239-412-11 s NETWORK RESISTOR (CHIP) 100

RB400-404  
1-239-412-11 s NETWORK RESISTOR (CHIP) 100

RB530 1-239-412-11 s NETWORK RESISTOR (CHIP) 100

RV100 1-237-033-11 s RES, ADJ METAL 1K

RV101 1-237-032-11 s RES, ADJ METAL 500

RV103 1-237-039-11 s RES, ADJ METAL 100K

RV104 1-237-032-11 s RES, ADJ METAL 500

RV200 1-237-033-11 s RES, ADJ METAL 1K

RV201 1-237-032-11 s RES, ADJ METAL 500

RV203 1-237-039-11 s RES, ADJ METAL 100K

RV204 1-237-032-11 s RES, ADJ METAL 500

RV300 1-237-033-11 s RES, ADJ METAL 1K

RV301 1-237-032-11 s RES, ADJ METAL 500

RV303 1-237-039-11 s RES, ADJ METAL 100K

RV304 1-237-032-11 s RES, ADJ METAL 500

RV400 1-237-033-11 s RES, ADJ METAL 1K

RV401 1-237-032-11 s RES, ADJ METAL 500

RV403 1-237-039-11 s RES, ADJ METAL 100K

RV404 1-237-032-11 s RES, ADJ METAL 500

RV800 1-237-035-11 s RES, ADJ METAL 5K

RV801 1-237-038-11 s RES, ADJ METAL 50K

RV802 1-237-035-11 s RES, ADJ METAL 5K

RV803 1-237-035-11 s RES, ADJ METAL 5K

S700 1-570-598-11 s SWITCH, DIP 4-CKT

FU-63 BOARD

Ref. No.  
or Q'ty Part No. SP Description

1pc A-8276-938-A o MOUNTED CIRCUIT BOARD, FU-63

4pcs 1-533-189-11 s HOLDER, FUSE

1pc 3-169-383-01 o BRACKET, PANEL

1pc 7-621-771-06 s SCREW +B 2X5

2pcs 7-682-902-11 s SCREW +PWH 2.6X5

C1 1-164-182-11 s CERAMIC, CHIP 3300PF 10% 100V

C2 1-127-519-11 s ALUMINUM SOLID 100uF 20% 20V

C3 1-164-489-11 s CERAMIC, CHIP 0.22uF 10% 16V

C4 1-164-489-11 s CERAMIC, CHIP 0.22uF 10% 16V

C5 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V

C6 1-163-038-00 s CERAMIC 0.1uF 25V

CN441 1-535-894-11 o TAB, FASTON

CN442 1-535-894-11 o TAB, FASTON

CN443 1-506-469-11 s CONNECTOR 4P, MALE

CN444 1-506-469-11 s CONNECTOR 4P, MALE

CN445 1-566-758-11 o CONNECTOR 3P, MALE

CN446 1-566-759-11 o CONNECTOR 4P, MALE

D1 8-719-800-76 s DIODE 1SS226

D2 8-719-801-78 s DIODE 1SS184

D3 8-719-801-78 s DIODE 1SS184

D4 8-719-158-15 s DIODE RD5.6SB

F1 ▲ 1-532-749-11 s FUSE, 8A 125V

F2 ▲ 1-532-749-11 s FUSE, 8A 125V

IC1 8-759-927-99 s IC MB3761PF

Q1 8-729-140-63 s TRANSISTOR 2SA1611-M5M6

Q2 8-729-117-31 s TRANSISTOR 2SC4177-L5

Q3 8-729-117-31 s TRANSISTOR 2SC4177-L5

Q4 8-729-117-31 s TRANSISTOR 2SC4177-L5

Q5 8-729-033-42 s TRANSISTOR 2SK2206

Q6 8-729-033-42 s TRANSISTOR 2SK2206

Q7 8-729-033-42 s TRANSISTOR 2SK2206

Q8 8-729-140-63 s TRANSISTOR 2SA1611-M5M6

R1 1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W

R2 1-208-823-11 s METAL, CHIP 51K 0.5% 1/10W

R3 1-218-760-11 s METAL, CHIP 220K 0.5% 1/10W

R4 1-216-687-11 s METAL, CHIP 33K 0.5% 1/10W

R5 1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W

R6 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W

R7 1-208-822-11 s METAL, CHIP 47K 0.5% 1/10W

R8 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W

R9 1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W

R10 1-216-676-11 s METAL, CHIP 11K 0.5% 1/10W

R11 1-208-774-11 s METAL, CHIP 470 0.5% 1/10W

R12 1-218-770-11 s METAL, CHIP 560K 0.5% 1/10W

R13 1-216-695-11 s METAL, CHIP 68K 0.5% 1/10W

R14 1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W

R15 1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W

R16 1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W

R17 1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W

R18 1-216-687-11 s METAL, CHIP 33K 0.5% 1/10W

R19 1-216-695-11 s METAL, CHIP 68K 0.5% 1/10W

R20 1-218-772-11 s METAL 680K 0.5% 1/10W

R21 1-216-695-11 s METAL, CHIP 68K 0.5% 1/10W

R22 1-216-695-11 s METAL, CHIP 68K 0.5% 1/10W

R23 1-208-814-11 s METAL, CHIP 22K 0.5% 1/10W

R24 1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W

## (FU-63 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R25	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R26	1-216-673-11	s METAL, CHIP 8.2K 0.5% 1/10W
R27	1-208-854-11	s METAL, CHIP 1M 0.5% 1/10W
R28	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W
R29	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R30	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R31	1-208-822-11	s METAL, CHIP 47K 0.5% 1/10W

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KY-315/315P BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8276-948-A	o MOUNTED CIRCUIT BOARD, KY-315 [for NTSC]
	A-8276-950-A	o MOUNTED CIRCUIT BOARD, KY-315P [for PAL]
1pc	3-169-546-02	o HOLDER, LCD
C1	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C2-9	1-163-125-00	s CERAMIC, CHIP 220PF 5% 50V
CN461	1-566-766-11	o CONNECTOR 11P, MALE
CN462	1-566-765-11	o CONNECTOR 10P, MALE
CN463	1-566-765-11	o CONNECTOR 10P, MALE
D1-21	8-719-941-09	s DIODE DAP202U
D22	8-719-109-51	s DIODE RD2.0ES-B2
D23	8-719-941-23	s DIODE DA204U
D24	1-809-346-11	s LED, BACK LIGHT
D25	1-809-346-11	s LED, BACK LIGHT
D26	8-719-915-45	s LED SLP162B, RED
D27	8-719-915-45	s LED SLP162B, RED
D28	1-809-346-11	s LED, BACK LIGHT
D29	1-809-346-11	s LED, BACK LIGHT
D30	8-719-955-05	s DIODE BR5505S
D31	1-809-346-11	s LED, BACK LIGHT
D32	1-809-346-11	s LED, BACK LIGHT
D33	8-719-902-27	s LED EBR3402S, RED
D34	8-719-915-45	s LED SLP162B, RED
D35	8-719-915-45	s LED SLP162B, RED
D36	8-719-902-27	s LED EBR3402S, RED
D37	8-719-902-27	s LED EBR3402S, RED
D38	8-719-915-45	s LED SLP162B, RED
IC1	8-759-171-74	s IC MSM6660-01GS-V1K
IC2	8-759-932-10	s IC MB88306PF
IC3	8-759-932-10	s IC MB88306PF
IC4	8-759-926-25	s IC SN74HC165ANS
L1	1-408-789-21	s INDUCTOR, CHIP 100uH
ND1	1-809-345-11	s UNIT, LCD
Q2	8-729-023-22	s TRANSISTOR 2SD2114K
Q3	8-729-023-22	s TRANSISTOR 2SD2114K
R1	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R2	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R3	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R4	1-216-059-00	s METAL, CHIP 2.7K 5% 1/10W
R5	1-126-049-11	s METAL, CHIP 1K 5% 1/10W
R6	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R7	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R8	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R9	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R10	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R11	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R12	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R13	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R14	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R15	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R16	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R17	1-216-059-00	s METAL, CHIP 2.7K 5% 1/10W
R18	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R20	1-216-033-00	s METAL, CHIP 220 5% 1/10W

(KY-315/315P BOARD)

Ref. No. or Q'ty	Part No.	SP Description	Ref. No. or Q'ty	Part No.	SP Description
R21	1-216-033-00	s METAL, CHIP 220 5% 1/10W	1pc	A-8276-909-A	o MOUNTED CIRCUIT BOARD, MB-601
R22	1-216-033-00	s METAL, CHIP 220 5% 1/10W	C903	1-110-985-11	s ELECT 0.0012F 20% 6.3V
R23-30	1-216-073-00	s METAL, CHIP 10K 5% 1/10W	C904	1-110-988-11	s ELECT 0.0022F 20% 6.3V
R31-35	1-216-036-00	s METAL, CHIP 300 5% 1/10W	CN901	1-774-263-11	s CONNECTOR, BOARD TO BOARD 20P
R36	1-216-013-00	s METAL, CHIP 33 5% 1/10W	CN902-907	1-774-265-11	s CONNECTOR, BOARD TO BOARD 30P
R37	1-216-013-00	s METAL, CHIP 33 5% 1/10W	CN908	1-774-263-11	s CONNECTOR, BOARD TO BOARD 20P
R38	1-216-013-00	s METAL, CHIP 33 5% 1/10W	CN909	1-774-265-11	s CONNECTOR, BOARD TO BOARD 30P
R40-47	1-126-049-11	s METAL, CHIP 1K 5% 1/10W	CN910	1-774-265-11	s CONNECTOR, BOARD TO BOARD 30P
S1-17	1-572-725-11	s SWITCH, PUSH	CN911	1-774-265-11	s CONNECTOR, BOARD TO BOARD 30P
S18	1-553-977-00	s SWITCH, SLIDE	CN912	1-566-568-11	o CONNECTOR 40P, FEMALE
S19	1-553-977-00	s SWITCH, SLIDE	CN913	1-580-538-11	o CONNECTOR, LY 18P, MALE
S20	1-570-724-11	s SWITCH, SLIDE	CN914	1-566-758-11	o CONNECTOR 3P, MALE
S21	1-570-724-11	s SWITCH, SLIDE	CN915	1-566-757-11	s CONNECTOR, PC BOARD 2P, MALE
S22	1-553-977-00	s SWITCH, SLIDE	CN921	1-565-884-11	o CONNECTOR 12P, MALE
S23	1-570-337-11	s SWITCH, DIGITAL	CN923	1-566-759-11	o CONNECTOR 4P, MALE
S24	1-570-337-11	s SWITCH, DIGITAL	CN930	1-566-758-11	o CONNECTOR 3P, MALE
S25	1-553-977-00	s SWITCH, SLIDE	CN931	1-535-894-11	o TAB, FASTON
S26	1-553-977-00	s SWITCH, SLIDE [for NTSC]	CN932	1-535-894-11	o TAB, FASTON
S27	1-570-854-11	s SWITCH, SLIDE	CN941	1-566-763-11	o CONNECTOR 8P, MALE
S28	1-554-377-21	s SWITCH, SLIDE	CN942	1-506-468-11	s CONNECTOR 3P, MALE
S29	1-570-851-11	s SWITCH, SLIDE	CN943	1-506-467-11	s CONNECTOR 2P, MALE
			CN944	1-506-467-11	s CONNECTOR 2P, MALE
			CN946	1-506-467-11	s CONNECTOR 2P, MALE
			CN947	1-564-002-41	s CONNECTOR 3P, MALE
			CN949	1-564-005-11	o CONNECTOR 6P, MALE
			CN951	1-506-467-11	s CONNECTOR 2P, MALE
			CN952	1-506-468-11	s CONNECTOR 3P, MALE
			CN953	1-564-002-11	s CONNECTOR 3P, MALE
			CN954	1-506-469-11	s CONNECTOR 4P, MALE
			CN955	1-564-002-41	s CONNECTOR 3P, MALE
			CN956	1-506-468-11	s CONNECTOR 3P, MALE
			CN957	1-506-472-11	o CONNECTOR 7P, MALE
			CN958	1-506-467-11	s CONNECTOR 2P, MALE
			CN960	1-564-001-11	o CONNECTOR 2P, MALE
			E1	3-657-235-00	o POINT, TEST
			E2	3-657-235-00	o POINT, TEST
			TP1-14	3-657-235-00	o POINT, TEST

## PSW-31A BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8269-442-A	s POWER ASSY [for J]
	A-8269-463-A	s POWER ASSY [for US, SY]
3pcs	9-911-840-99	s CUSHION, CRT
C1	1-127-520-11	s ELECT 68uF 20% 20V
C2-9	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C10	1-163-038-00	s CERAMIC 0.1uF 25V
C11	1-163-038-00	s CERAMIC 0.1uF 25V
C12	1-163-038-00	s CERAMIC 0.1uF 25V
C13	1-127-513-00	s ALUMN SOLID 15uF 20% 25V
C14	1-127-513-00	s ALUMN SOLID 15uF 20% 25V
C15	1-163-038-00	s CERAMIC 0.1uF 25V
C16	1-163-038-00	s CERAMIC 0.1uF 25V
C17	1-163-038-00	s CERAMIC 0.1uF 25V
C18	1-127-519-11	s ALUMN SOLID 100uF 20% 20V
C19	1-127-519-11	s ALUMN SOLID 100uF 20% 20V
C20	1-127-531-11	s ELECT 33uF 20% 20V
C21	1-127-519-11	s ALUMN SOLID 100uF 20% 20V
C22	1-127-515-11	s ALUMN SOLID 47uF 20% 10V
C23	1-127-532-11	s ELECT 47uF 20% 20V
C24	1-127-515-11	s ALUMN SOLID 47uF 20% 10V
C25	1-127-515-11	s ALUMN SOLID 47uF 20% 10V
C26	1-127-515-11	s ALUMN SOLID 47uF 20% 10V
C27	1-127-518-11	s ALUMN SOLID 100uF 20% 16V
C28-33	1-111-011-11	s ELECT 470uF 20% 10V
C34-39	1-163-038-00	s CERAMIC 0.1uF 25V
C40	1-111-011-11	s ELECT 470uF 20% 10V
C41	1-163-038-00	s CERAMIC 0.1uF 25V
C42	1-163-038-00	s CERAMIC 0.1uF 25V
CN601	1-506-469-11	s CONNECTOR 4P, MALE
CN602	1-535-894-11	o TAB, FASTON
CN603	1-566-566-11	o CONNECTOR 40P, MALE
D1	8-719-981-38	s DIODE ERC62M-004
D2-9	8-719-975-43	s DIODE RB420D
D10	8-719-210-39	s DIODE EC10QS-04
D11	8-719-210-39	s DIODE EC10QS-04
F1	△ 1-532-679-21	s LINK
FB1-7	1-543-821-11	s BEAD, AMORPHOUS
L1	1-406-929-11	s COIL, CHOKE
L2	1-424-517-11	s COIL, CHOKE 200uH
L3	1-424-517-11	s COIL, CHOKE 200uH
L4	1-411-521-11	s COIL, CHOKE 52uH
L5	1-424-517-11	s COIL, CHOKE 200uH
L6	1-411-521-11	s COIL, CHOKE 52uH
L7-13	1-421-459-21	s COIL, CHOKE
Q1	8-729-029-14	s TRANSISTOR DTC144EUA-T106
Q2	8-729-032-72	s TRANSISTOR 2SJ332L
Q3	8-729-143-63	s TRANSISTOR 2SJ132
Q4	8-729-031-13	s TRANSISTOR SI-9430DY-T1
Q5	8-729-143-63	s TRANSISTOR 2SJ132
Q6	8-729-031-13	s TRANSISTOR SI-9430DY-T1
Q7	8-729-143-63	s TRANSISTOR 2SJ132
Q8	8-729-031-13	s TRANSISTOR SI-9430DY-T1
Q9	8-729-032-73	s TRANSISTOR 2SK2084L
Q10	8-729-032-73	s TRANSISTOR 2SK2084L
Q11	8-729-032-73	s TRANSISTOR 2SK2084L

## (PSW-31A BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q12	8-729-032-73	s TRANSISTOR 2SK2084L
R1	1-216-089-00	s METAL, CHIP 47k 5% 1/10W
R2	1-219-724-11	s METAL 1 1% 1/4W
R3	1-219-724-11	s METAL 1 1% 1/4W
R4	1-219-723-11	s METAL 0.15 1% 1/4W
R5	1-219-724-11	s METAL 1 1% 1/4W
R6	1-219-724-11	s METAL 1 1% 1/4W
R7	1-219-723-11	s METAL 0.15 1% 1/4W
R8	1-219-723-11	s METAL 0.15 1% 1/4W
R9	1-219-724-11	s METAL 1 1% 1/4W
R10	1-219-724-11	s METAL 1 1% 1/4W
R11	1-219-723-11	s METAL 0.15 1% 1/4W
R12	1-219-722-11	s METAL 0.1 1% 1/4W
R13	1-219-723-11	s METAL 0.15 1% 1/4W
R14	1-216-077-00	s METAL, CHIP 15K 5% 1/10W
R15	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R16	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R17	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R18	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R19	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R20	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R21	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R22	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R23	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R24	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R25	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R26	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R27	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R28	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R29	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R30	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R31	1-216-001-00	s METAL, CHIP 10 5% 1/10W
R32	1-216-001-00	s METAL, CHIP 10 5% 1/10W
R33	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R34	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R35	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R36	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R37	1-216-689-11	s METAL, CHIP 39K 0.5% 1/10W
R38	1-216-093-00	s METAL, CHIP 68K 5% 1/10W
R39	1-216-689-11	s METAL, CHIP 39K 0.5% 1/10W

## PSW-31B BOARD

## (PSW-31B BOARD)

Ref. No. or Q'ty	Part No.	SP Description	Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8269-442-A s	POWER ASSY [for J]	Q127	8-729-117-31 s	TRANSISTOR 2SC4177-L5
	A-8269-463-A s	POWER ASSY [for US, SY]	Q128	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
C101	1-111-057-11 s	ELECT 120uF 20% 25V	Q129	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
C102	1-164-346-11 s	CERAMIC 1uF 16V	Q130	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
C103	1-162-970-11 s	CERAMIC, CHIP 0.01uF 10% 25V	Q131	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
C104	1-111-107-11 s	ELECT 10uF 20% 50V	Q132	8-729-927-68 s	TRANSISTOR UMW1
C105	1-164-156-11 s	CERAMIC, CHIP 0.1uF 25V	Q133	8-729-927-68 s	TRANSISTOR UMW1
C106	1-135-216-11 s	TANTALUM, CHIP 10uF 20% 10V	Q134	8-729-927-68 s	TRANSISTOR UMW1
C107	1-135-216-11 s	TANTALUM, CHIP 10uF 20% 10V	Q135	8-729-209-06 s	TRANSISTOR 2SC4213-A
C108	1-135-216-11 s	TANTALUM, CHIP 10uF 20% 10V	Q136	8-729-209-06 s	TRANSISTOR 2SC4213-A
C109	1-164-156-11 s	CERAMIC, CHIP 0.1uF 25V	Q137	8-729-209-06 s	TRANSISTOR 2SC4213-A
C110	1-164-156-11 s	CERAMIC, CHIP 0.1uF 25V	R101	1-218-881-11 s	METAL, CHIP 27K 0.5% 1/16W
C111	1-164-156-11 s	CERAMIC, CHIP 0.1uF 25V	R102	1-218-707-11 s	METAL, CHIP 4.3K 0.5% 1/16W
C112	1-135-149-21 s	TANTALUM, CHIP 2.2uF 10% 10V	R103	1-218-740-11 s	METAL, CHIP 100K 0.5% 1/16W
C113-117	1-135-209-11 s	TANTALUM, CHIP 3.3uF 20% 10V	R104	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
C118	1-164-004-11 s	CERAMIC, CHIP 0.1uF 10% 25V	R105	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
C119	1-162-968-11 s	CERAMIC, CHIP 0.0047uF 10% 50V	R106	1-216-817-11 s	METAL, CHIP 470 5% 1/16W
C120	1-162-970-11 s	CERAMIC, CHIP 0.01uF 10% 25V	R107	1-216-846-11 s	METAL, CHIP 120K 5% 1/16W
C121	1-162-970-11 s	CERAMIC, CHIP 0.01uF 10% 25V	R108	1-216-846-11 s	METAL, CHIP 120K 5% 1/16W
C122	1-164-227-11 s	CERAMIC, CHIP 0.022uF 10% 25V	R109	1-216-843-11 s	METAL, CHIP 68K 5% 1/16W
C123	1-164-227-11 s	CERAMIC, CHIP 0.022uF 10% 25V	R110	1-216-846-11 s	METAL, CHIP 120K 5% 1/16W
C124	1-164-227-11 s	CERAMIC, CHIP 0.022uF 10% 25V	R111	1-216-843-11 s	METAL, CHIP 68K 5% 1/16W
C125	1-164-227-11 s	CERAMIC, CHIP 0.022uF 10% 25V	R112	1-216-846-11 s	METAL, CHIP 120K 5% 1/16W
C126	1-164-004-11 s	CERAMIC, CHIP 0.1uF 10% 25V	R113	1-216-843-11 s	METAL, CHIP 68K 5% 1/16W
C127	1-162-970-11 s	CERAMIC, CHIP 0.01uF 10% 25V	R114	1-216-846-11 s	METAL, CHIP 120K 5% 1/16W
C128	1-164-227-11 s	CERAMIC, CHIP 0.022uF 10% 25V	R115	1-216-843-11 s	METAL, CHIP 68K 5% 1/16W
C129	1-164-227-11 s	CERAMIC, CHIP 0.022uF 10% 25V	R116	1-216-846-11 s	METAL, CHIP 120K 5% 1/16W
C130	1-164-218-11 s	CERAMIC, CHIP 180PF 50V	R117	1-216-843-11 s	METAL, CHIP 68K 5% 1/16W
C131	1-164-677-11 s	CERAMIC, CHIP 0.033uF 10% 16V	R118	1-216-846-11 s	METAL, CHIP 120K 5% 1/16W
C132-137	1-162-927-11 s	CERAMIC, CHIP 100PF 5% 50V	R119-126	1-218-367-11 s	METAL, CHIP 10K 0.1% 1/10W
C138-149	1-164-156-11 s	CERAMIC, CHIP 0.1uF 25V	R127-132	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
C150	1-164-677-11 s	CERAMIC, CHIP 0.033uF 10% 16V	R133	1-219-711-11 s	METAL, CHIP 220 0.1% 1/10W
D101	8-719-941-09 s	DIODE DAP202U	R134	1-219-714-11 s	METAL, CHIP 820 0.1% 1/10W
D102	8-759-030-61 s	IC TL431CM	R135	1-219-712-11 s	METAL, CHIP 390 0.1% 1/10W
IC101	8-759-927-99 s	IC MB3761PF	R136	1-219-713-11 s	METAL, CHIP 620 0.1% 1/10W
IC102	8-759-066-68 s	IC REF-03GS	R137	1-219-710-11 s	METAL, CHIP 100 0.1% 1/10W
IC103	8-759-260-57 s	IC TL1451ACPW-E05	R138	1-218-182-11 s	METAL, CHIP 270 0.1% 1/16W
IC104	8-759-260-57 s	IC TL1451ACPW-E05	R139	1-219-715-11 s	METAL, CHIP 5.1K 0.1% 1/10W
IC105	8-759-260-57 s	IC TL1451ACPW-E05	R140	1-219-715-11 s	METAL, CHIP 5.1K 0.1% 1/10W
Q101	8-729-117-31 s	TRANSISTOR 2SC4177-L5	R141	1-219-715-11 s	METAL, CHIP 5.1K 0.1% 1/10W
Q102	8-729-117-31 s	TRANSISTOR 2SC4177-L5	R142	1-211-998-11 s	METAL, CHIP 4.7K 0.1% 1/10W
Q103	8-729-029-14 s	TRANSISTOR DTC144EUA-T106	R143	1-219-715-11 s	METAL, CHIP 5.1K 0.1% 1/10W
Q104	8-729-028-91 s	TRANSISTOR DTA144EUA-T106	R144	1-219-716-11 s	METAL, CHIP 5.6K 0.1% 1/10W
Q105-110	8-729-117-31 s	TRANSISTOR 2SC4177-L5	R145	1-218-367-11 s	METAL, CHIP 10K 0.1% 1/10W
Q111	8-729-012-35 s	TRANSISTOR 2SK711-BL	R146	1-216-687-11 s	METAL, CHIP 33K 0.5% 1/10W
Q112	8-729-012-35 s	TRANSISTOR 2SK711-BL	R147	1-219-717-11 s	METAL, CHIP 18K 0.1% 1/10W
Q113	8-729-012-35 s	TRANSISTOR 2SK711-BL	R148	1-219-391-21 s	METAL, CHIP 47K 0.1% 1/10W
Q114	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6	R149	1-216-677-11 s	METAL, CHIP 12K 0.5% 1/10W
Q115	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6	R150	1-216-674-11 s	METAL, CHIP 9.1K 0.5% 1/10W
Q116	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6	R151	1-216-684-11 s	METAL, CHIP 24K 0.5% 1/10W
Q118	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6	R152	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
Q120	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6	R153	1-216-829-11 s	METAL, CHIP 4.7K 5% 1/16W
Q121	8-729-117-31 s	TRANSISTOR 2SC4177-L5	R154	1-218-367-11 s	METAL, CHIP 10K 0.1% 1/10W
Q122	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6	R155	1-216-829-11 s	METAL, CHIP 4.7K 5% 1/16W
Q123	8-729-117-31 s	TRANSISTOR 2SC4177-L5	R156	1-216-835-11 s	METAL, CHIP 15K 5% 1/16W
Q124	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6	R157	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
Q125	8-729-117-31 s	TRANSISTOR 2SC4177-L5	R158	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
Q126	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6	R159	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W

## (PSW-31B BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R160	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R161-166	1-216-813-11	s METAL, CHIP 220 5% 1/16W
R167	1-216-840-11	s METAL, CHIP 39K 5% 1/16W
R168	1-216-807-11	s METAL, CHIP 68 5% 1/16W
R169	1-216-807-11	s METAL, CHIP 68 5% 1/16W
R170	1-216-807-11	s METAL, CHIP 68 5% 1/16W
R171	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R172	1-216-272-11	s METAL, CHIP 5.1K 5% 1/16W
R173	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R174	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R175	1-216-816-11	s METAL, CHIP 390 5% 1/16W
R177	1-216-812-11	s METAL, CHIP 180 5% 1/16W
R176	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R178	1-216-812-11	s METAL, CHIP 180 5% 1/16W
R179	1-216-812-11	s METAL, CHIP 180 5% 1/16W
R180	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R181	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R182	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R183	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R184	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R185	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R186	1-216-822-11	s METAL, CHIP 1.2K 5% 1/16W
R187	1-216-840-11	s METAL, CHIP 39K 5% 1/16W
R188	1-216-822-11	s METAL, CHIP 1.2K 5% 1/16W
R189	1-216-840-11	s METAL, CHIP 39K 5% 1/16W
R190	1-216-822-11	s METAL, CHIP 1.2K 5% 1/16W
R191	1-216-840-11	s METAL, CHIP 39K 5% 1/16W
R192	1-216-831-11	s METAL, CHIP 6.8K 5% 1/16W
R193	1-216-831-11	s METAL, CHIP 6.8K 5% 1/16W
R194	1-216-831-11	s METAL, CHIP 6.8K 5% 1/16W
R195	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R196	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R197	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R198	1-216-814-11	s METAL, CHIP 270 5% 1/16W
R199	1-216-840-11	s METAL, CHIP 39K 5% 1/16W
R200	1-216-814-11	s METAL, CHIP 270 5% 1/16W
R201	1-216-840-11	s METAL, CHIP 39K 5% 1/16W
R202	1-216-814-11	s METAL, CHIP 270 5% 1/16W
R203	1-216-840-11	s METAL, CHIP 39K 5% 1/16W
TH101	1-809-308-21	s THERMISTOR, CHIP 3.3K
TH102	1-809-308-21	s THERMISTOR, CHIP 3.3K
TH103	1-809-308-21	s THERMISTOR, CHIP 3.3K

## PSW-31C BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8269-442-A	s POWER ASSY [for J]
	A-8269-463-A	s POWER ASSY [for US, SY]
C301	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V
C302	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V
C303	1-163-038-00	s CERAMIC 0.1uF 25V
C304	1-164-489-11	s CERAMIC, CHIP 0.22uF 10% 16V
C305	1-164-489-11	s CERAMIC, CHIP 0.22uF 10% 16V
C306	1-164-489-11	s CERAMIC, CHIP 0.22uF 10% 16V
C307	1-163-989-11	s CERAMIC, CHIP 0.033uF 10% 25V
C308	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C309	1-163-038-00	s CERAMIC 0.1uF 25V
C310	1-163-038-00	s CERAMIC 0.1uF 25V
C311	1-127-513-00	s ALUMN SOLID 15uF 20% 25V
C312	1-111-156-11	s ELECT 5.6uF 20% 100V
C313	1-111-156-11	s ELECT 5.6uF 20% 100V
D301	8-719-901-83	s DIODE 1SS83
FB301	1-543-821-11	s BEAD, AMORPHOUS
IC301	8-759-937-36	s IC TL1451ACNS
L301	1-424-517-11	s COIL, CHOKE 200UH
Q301	8-729-117-31	s TRANSISTOR 2SC4177-L5
Q302	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q303	8-729-120-53	s TRANSISTOR 2SJ132-Z
Q304	8-729-143-13	s TRANSISTOR 2SC4176-B34
Q305	8-729-117-31	s TRANSISTOR 2SC4177-L5
Q306	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q307	8-729-032-71	s TRANSISTOR 2SK1949L
R301	1-216-105-00	s METAL, CHIP 220K 5% 1/10W
R302	1-216-111-00	s METAL, CHIP 390K 5% 1/10W
R303	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R304	1-218-182-11	s METAL, CHIP 270 0.1% 1/16W
R305	1-219-715-11	s METAL, CHIP 5.1K 0.1% 1/10W
R306	1-218-367-11	s METAL, CHIP 10K 0.1% 1/10W
R307	1-218-367-11	s METAL, CHIP 10K 0.1% 1/10W
R308	1-220-154-11	s METAL, CHIP 100K 0.1% 1/10W
R309	1-220-154-11	s METAL, CHIP 100K 0.1% 1/10W
R310	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R311	1-219-724-11	s METAL 1 1% 1/4W
R312	1-219-724-11	s METAL 1 1% 1/4W
R313	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R314	1-216-051-00	s METAL, CHIP 1.2K 5% 1/10W
R315	1-216-689-11	s METAL, CHIP 39K 0.5% 1/10W
R316	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R317	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R318	1-216-069-00	s METAL, CHIP 6.8K 5% 1/10W
R319	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R320	1-216-001-00	s METAL, CHIP 10 5% 1/10W
R321	1-215-857-11	s METAL 10 5% 1W
TH301	1-809-308-21	s THERMISTOR, CHIP 3.3K

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SE-233 BOARD

Ref. No.  
or Q'ty Part No. SP Description

1pc 1-657-800-11 o PRINTED CIRCUIT BOARD, SE-233  
CN1 1-764-007-11 s CONNECTOR, 1.5mm SMD 12P, MALE  
S1 1-572-719-11 s SWITCH, PUSH  
S2 1-572-719-11 s SWITCH, PUSH  
S3 1-572-719-11 s SWITCH, PUSH  
S4 1-572-719-11 s SWITCH, PUSH  
S7-11 1-572-719-11 s SWITCH, PUSH

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SST-3/3P BOARD

Ref. No.  
or Q'ty Part No. SP Description

1pc A-8276-910-A o MOUNTED CIRCUIT BOARD, SST-3  
[for NTSC]  
A-8276-912-A o MOUNTED CIRCUIT BOARD, SST-3P  
[for PAL]  
1pc 3-509-140-00 o HOLDER, WIRE  
BT111 1-528-292-11 o BATTERY, SUPER LITHIUM  
C1 1-126-096-11 s ELECT 10uF 20% 35V  
C2 1-124-242-00 s ELECT 33uF 20% 25V  
C3 1-163-038-00 s CERAMIC 0.1uF 25V  
C4 1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V  
C5 1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V  
C6 1-163-038-00 s CERAMIC 0.1uF 25V  
C7 1-163-038-00 s CERAMIC 0.1uF 25V  
C8 1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 100V  
C9 1-163-038-00 s CERAMIC 0.1uF 25V  
C10 1-163-227-11 s CERAMIC, CHIP 10PF 5% 50V  
C11 1-163-222-11 s CERAMIC, CHIP 5PF 50V  
C12 1-164-346-11 s CERAMIC 1uF 16V  
C13 1-164-346-11 s CERAMIC 1uF 16V  
C14 1-128-126-11 s ELECT 100uF 20% 25V  
C15 1-163-133-00 s CERAMIC, CHIP 470PF 5% 50V  
C16 1-128-126-11 s ELECT 100uF 20% 25V  
C17 1-126-398-11 s ELECT, CHIP 4.7uF 20% 35V  
C18 1-163-133-00 s CERAMIC, CHIP 470PF 5% 50V  
C19 1-163-133-00 s CERAMIC, CHIP 470PF 5% 50V  
C20 1-126-401-11 s ELECT, CHIP 1uF 20% 50V  
C21 1-126-395-11 s ELECT, CHIP 22uF 20% 16V  
C22 1-126-395-11 s ELECT, CHIP 22uF 20% 16V  
C23 1-163-809-11 s CERAMIC, CHIP 0.047uF 10% 25V  
C24 1-163-038-00 s CERAMIC 0.1uF 25V  
C25 1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V  
C26 1-128-499-11 s ELECT 220uF 20% 16V  
C27 1-128-499-11 s ELECT 220uF 20% 16V  
C28 1-163-038-00 s CERAMIC 0.1uF 25V  
C29 1-163-038-00 s CERAMIC 0.1uF 25V  
C30 1-163-038-00 s CERAMIC 0.1uF 25V  
C31 1-163-038-00 s CERAMIC 0.1uF 25V  
C111 1-126-916-11 s ELECT 1000uF 20% 6.3V  
C112 1-163-038-00 s CERAMIC 0.1uF 25V  
C113 1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V  
C114 1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V  
C115 1-163-038-00 s CERAMIC 0.1uF 25V  
C116 1-163-113-00 s CERAMIC, CHIP 68PF 5% 50V  
C117 1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V  
C118 1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V  
C119 1-163-038-00 s CERAMIC 0.1uF 25V  
C120 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V  
C121 1-126-395-11 s ELECT, CHIP 22uF 20% 16V  
C122 1-126-395-11 s ELECT, CHIP 22uF 20% 16V  
C151 1-163-038-00 s CERAMIC 0.1uF 25V  
C152 1-163-038-00 s CERAMIC 0.1uF 25V  
C153 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V  
C154 1-163-038-00 s CERAMIC 0.1uF 25V  
C155 1-163-038-00 s CERAMIC 0.1uF 25V  
C156 1-163-038-00 s CERAMIC 0.1uF 25V  
C301 1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V  
C302 1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V

## (SST-3/3P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C303	1-163-275-11 s	CERAMIC, CHIP 0.001uF 5% 50V
C304	1-163-038-00 s	CERAMIC 0.1uF 25V
C305	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C306	1-163-121-00 s	CERAMIC, CHIP 150PF 5% 50V
C307	1-163-038-00 s	CERAMIC 0.1uF 25V
C308	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C309	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C310	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C351-358	1-163-038-00 s	CERAMIC 0.1uF 25V
C401	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C402	1-163-275-11 s	CERAMIC, CHIP 0.001uF 5% 50V
C403	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C404	1-163-275-11 s	CERAMIC, CHIP 0.001uF 5% 50V
C405	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C406	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C407	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C408	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C409	1-126-096-11 s	ELECT 10uF 20% 35V
C410	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C411	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C412	1-163-809-11 s	CERAMIC, CHIP 0.047uF 10% 25V
C413	1-163-143-00 s	CERAMIC, CHIP 0.0012uF 5% 50V
C414	1-163-143-00 s	CERAMIC, CHIP 0.0012uF 5% 50V
C415	1-164-004-11 s	CERAMIC, CHIP 0.1uF 10% 25V
C416	1-164-004-11 s	CERAMIC, CHIP 0.1uF 10% 25V
C417	1-163-809-11 s	CERAMIC, CHIP 0.047uF 10% 25V
C418	1-163-809-11 s	CERAMIC, CHIP 0.047uF 10% 25V
C419	1-163-263-11 s	CERAMIC, CHIP 330PF 5% 50V
C420	1-163-263-11 s	CERAMIC, CHIP 330PF 5% 50V
C421	1-163-091-00 s	CERAMIC, CHIP 8PF 50V
C422	1-163-091-00 s	CERAMIC, CHIP 8PF 50V
C423	1-163-809-11 s	CERAMIC, CHIP 0.047uF 10% 25V
C424	1-163-809-11 s	CERAMIC, CHIP 0.047uF 10% 25V
C425	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C426	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C427	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C428	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C432-449	1-163-038-00 s	CERAMIC 0.1uF 25V
C450	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C451	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C452	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C453	1-163-809-11 s	CERAMIC, CHIP 0.047uF 10% 25V
C454	1-163-809-11 s	CERAMIC, CHIP 0.047uF 10% 25V
C455	1-164-695-11 s	CERAMIC 0.0022uF 5% 50V
C456	1-164-695-11 s	CERAMIC 0.0022uF 5% 50V
C457	1-164-695-11 s	CERAMIC 0.0022uF 5% 50V
C458	1-164-695-11 s	CERAMIC 0.0022uF 5% 50V
C459	1-164-489-11 s	CERAMIC, CHIP 0.22uF 10% 16V
C501	1-163-809-11 s	CERAMIC, CHIP 0.047uF 10% 25V
C502	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C503	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C504	1-164-695-11 s	CERAMIC 0.0022uF 5% 50V
C505	1-164-695-11 s	CERAMIC 0.0022uF 5% 50V
C506	1-163-113-00 s	CERAMIC, CHIP 68PF 5% 50V
C507	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C508	1-163-113-00 s	CERAMIC, CHIP 68PF 5% 50V
C509	1-163-017-00 s	CERAMIC, CHIP 0.0047uF 5% 50V
C510	1-163-017-00 s	CERAMIC, CHIP 0.0047uF 5% 50V
C515	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V

## (SST-3/3P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C516	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C517	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C519	1-163-989-11 s	CERAMIC, CHIP 0.033uF 10% 25V
C520-524	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C601	1-163-989-11 s	CERAMIC, CHIP 0.033uF 10% 25V
C602	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C603	1-163-989-11 s	CERAMIC, CHIP 0.033uF 10% 25V
C604	1-163-121-00 s	CERAMIC, CHIP 150PF 5% 50V
C605	1-163-989-11 s	CERAMIC, CHIP 0.033uF 10% 25V
C606	1-163-127-00 s	CERAMIC, CHIP 270PF 5% 50V
C607	1-126-946-11 s	ELECT 6800uF 20% 25V
C608	1-164-232-11 s	CERAMIC, CHIP 0.01uF 10% 100V
C609	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C610	1-164-695-11 s	CERAMIC 0.0022uF 5% 50V
C611	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C612	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C613	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C614	1-163-127-00 s	CERAMIC, CHIP 270PF 5% 50V
C615	1-163-038-00 s	CERAMIC 0.1uF 25V
C616	1-126-022-11 s	ELECT 47uF 20% 25V
C617	1-164-695-11 s	CERAMIC 0.0022uF 5% 50V
C618	1-163-038-00 s	CERAMIC 0.1uF 25V
C619	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C620	1-126-022-11 s	ELECT 47uF 20% 25V
C621	1-163-038-00 s	CERAMIC 0.1uF 25V
C622	1-126-022-11 s	ELECT 47uF 20% 25V
C623	1-126-022-11 s	ELECT 47uF 20% 25V
C624	1-163-038-00 s	CERAMIC 0.1uF 25V
C625	1-163-989-11 s	CERAMIC, CHIP 0.033uF 10% 25V
C626	1-163-989-11 s	CERAMIC, CHIP 0.033uF 10% 25V
C627	1-163-809-11 s	CERAMIC, CHIP 0.047uF 10% 25V
C628	1-163-809-11 s	CERAMIC, CHIP 0.047uF 10% 25V
C629	1-163-809-11 s	CERAMIC, CHIP 0.047uF 10% 25V
C631	1-163-809-11 s	CERAMIC, CHIP 0.047uF 10% 25V
C632	1-163-809-11 s	CERAMIC, CHIP 0.047uF 10% 25V
C633	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C634	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C635	1-163-809-11 s	CERAMIC, CHIP 0.047uF 10% 25V
C637-642	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C643	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C644	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C645	1-126-022-11 s	ELECT 47uF 20% 25V
C646	1-126-022-11 s	ELECT 47uF 20% 25V
C647	1-126-022-11 s	ELECT 47uF 20% 25V
C648	1-126-022-11 s	ELECT 47uF 20% 25V
C649	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C650	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C651	1-126-096-11 s	ELECT 10uF 20% 35V
C652	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C801	1-165-112-11 s	CERAMIC 0.33uF 16V
C802	1-164-004-11 s	CERAMIC, CHIP 0.1uF 10% 25V
C803	1-135-166-21 s	TANTALUM, CHIP 47uF 10% 10V
C804	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C805	1-135-166-21 s	TANTALUM, CHIP 47uF 10% 10V
C806	1-104-547-11 s	FILM, CHIP 0.0047uF 5% 16V [for NTSC]
	1-107-553-11 s	FILM, CHIP 0.0056uF 2% 16V [for PAL]
C851	1-126-394-11 s	ELECT, CHIP 10uF 20% 16V

(SST-3/3P BOARD)

Ref. No.  
or Q'ty Part No. SP Description

C852 1-126-394-11 s ELECT, CHIP 10uF 20% 16V  
 C853 1-104-553-11 s FILM, CHIP 0.015uF 5% 16V  
 C854 1-135-201-11 s TANTALUM, CHIP 10uF 20% 6.3V  
 C855 1-135-201-11 s TANTALUM, CHIP 10uF 20% 6.3V  
 C856 1-163-125-00 s CERAMIC, CHIP 220PF 5% 50V

C857 1-163-038-00 s CERAMIC 0.1uF 25V  
 C858 1-163-038-00 s CERAMIC 0.1uF 25V  
 C859 1-163-038-00 s CERAMIC 0.1uF 25V  
 C860 1-163-038-00 s CERAMIC 0.1uF 25V  
 C861 1-163-121-00 s CERAMIC, CHIP 150PF 5% 50V

C901 1-126-394-11 s ELECT, CHIP 10uF 20% 16V  
 C902 1-126-394-11 s ELECT, CHIP 10uF 20% 16V  
 C903 1-163-017-00 s CERAMIC, CHIP 0.0047uF 5% 50V  
 C904 1-104-552-11 s FILM, CHIP 0.012uF 5% 16V  
 C905 1-104-563-11 s FILM, CHIP 0.1uF 5% 16V

C906 1-135-318-11 s TANTALUM, CHIP 33uF 20% 4V  
 C907 1-135-318-11 s TANTALUM, CHIP 33uF 20% 4V  
 C908 1-135-201-11 s TANTALUM, CHIP 10uF 20% 6.3V  
 C909 1-163-125-00 s CERAMIC, CHIP 220PF 5% 50V  
 C910 1-163-038-00 s CERAMIC 0.1uF 25V

C911 1-163-038-00 s CERAMIC 0.1uF 25V  
 C912 1-163-038-00 s CERAMIC 0.1uF 25V  
 C913 1-163-038-00 s CERAMIC 0.1uF 25V  
 C914 1-163-121-00 s CERAMIC, CHIP 150PF 5% 50V  
 C915 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V

C941 1-135-216-11 s TANTALUM, CHIP 10uF 20% 10V  
 C942 1-163-017-00 s CERAMIC, CHIP 0.0047uF 5% 50V  
 C943 1-163-017-00 s CERAMIC, CHIP 0.0047uF 5% 50V  
 C944 1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V  
 C945 1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 100V

C946 1-126-395-11 s ELECT, CHIP 22uF 20% 16V  
 C947 1-163-017-00 s CERAMIC, CHIP 0.0047uF 5% 50V  
 C948 1-109-898-11 s CERAMIC, CHIP 0.018uF 5% 100V  
 C949 1-109-897-11 s CERAMIC, CHIP 0.015uF 5% 100V  
 C961 1-135-216-11 s TANTALUM, CHIP 10uF 20% 10V

C962 1-163-017-00 s CERAMIC, CHIP 0.0047uF 5% 50V  
 C963 1-163-017-00 s CERAMIC, CHIP 0.0047uF 5% 50V  
 C964 1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V  
 C965 1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 100V  
 C966 1-126-395-11 s ELECT, CHIP 22uF 20% 16V

C967 1-163-017-00 s CERAMIC, CHIP 0.0047uF 5% 50V  
 C968 1-109-898-11 s CERAMIC, CHIP 0.018uF 5% 100V  
 C969 1-109-897-11 s CERAMIC, CHIP 0.015uF 5% 100V  
 C981 1-163-038-00 s CERAMIC 0.1uF 25V  
 C982 1-163-038-00 s CERAMIC 0.1uF 25V

C983 1-126-396-11 s ELECT, CHIP 47uF 20% 16V  
 C984 1-126-396-11 s ELECT, CHIP 47uF 20% 16V  
 C985 1-163-038-00 s CERAMIC 0.1uF 25V  
 C986 1-163-038-00 s CERAMIC 0.1uF 25V  
 C987 1-163-038-00 s CERAMIC 0.1uF 25V

C988 1-163-038-00 s CERAMIC 0.1uF 25V  
 C989 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V  
 C990 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V  
 C991 1-163-038-00 s CERAMIC 0.1uF 25V  
 C992 1-163-038-00 s CERAMIC 0.1uF 25V

C993 1-163-038-00 s CERAMIC 0.1uF 25V  
 C994 1-163-038-00 s CERAMIC 0.1uF 25V

CN1 1-506-469-11 s CONNECTOR 4P, MALE

(SST-3/3P BOARD)

Ref. No.  
or Q'ty Part No. SP Description

CN101 1-566-767-11 o CONNECTOR 12P, MALE  
 CN102 1-506-469-11 s CONNECTOR 4P, MALE  
 CN103 1-566-766-11 o CONNECTOR 11P, MALE  
 CN104 1-566-765-11 o CONNECTOR 10P, MALE  
 CN105 1-566-760-11 s CONNECTOR, ZR 5P, MALE

CN106 1-565-772-11 o CONNECTOR, PS 10P, MALE  
 CN107 1-566-764-11 o CONNECTOR 9P, MALE  
 CN108 1-566-765-11 o CONNECTOR 10P, MALE  
 CN109 1-566-761-11 o CONNECTOR 6P, MALE  
 CN110 1-580-716-11 o CONNECTOR 13P, MALE

CN111 1-566-760-11 s CONNECTOR, ZR 5P, MALE  
 CN112 1-566-760-11 s CONNECTOR, ZR 5P, MALE  
 CN113 1-506-482-11 s CONNECTOR 3P, MALE  
 CN114 1-506-467-11 o CONNECTOR 2P, MALE  
 CN115 1-566-759-11 o CONNECTOR 4P, MALE

CN501 1-564-004-11 o CONNECTOR, 5P, MALE  
 CN901 1-774-267-11 s CONNECTOR, BOARD TO BOARD 20P  
 CN902 1-774-269-11 s CONNECTOR, BOARD TO BOARD 30P  
 CN903 1-774-269-11 s CONNECTOR, BOARD TO BOARD 30P  
 CN904 1-774-269-11 s CONNECTOR, BOARD TO BOARD 30P

CN905 1-774-269-11 s CONNECTOR, BOARD TO BOARD 30P  
 CNI24 1-526-662-21 o SOCKET, IC (DP) 40P  
 CNI413 1-540-119-11 o SOCKET, IC (IC113) 44P

CT941 1-424-511-11 s TRANSFORMER, PE

CT961 1-424-511-11 s TRANSFORMER, PE

CV111 1-141-368-11 s CAP, TRIMMER, CHIP 30PP

D1 8-719-911-19 s DIODE 1SS119  
 D2 8-719-820-12 s DIODE TLR224  
 D3 8-719-987-87 s DIODE ERA85-009  
 D4 8-719-975-85 s DIODE ERB83-004  
 D5 8-719-941-86 s DIODE DAN202U

D6 8-719-987-87 s DIODE ERA85-009  
 D7 8-719-987-87 s DIODE ERA85-009  
 D8 8-719-109-98 s DIODE 1SS97-0  
 D111 8-719-902-27 s LED EBR3402S, RED  
 D113 8-719-987-87 s DIODE ERA85-009

D114 8-719-941-86 s DIODE DAN202U  
 D115 8-719-941-86 s DIODE DAN202U  
 D301 8-719-941-86 s DIODE DAN202U  
 D302 8-719-941-09 s DIODE DAP202U  
 D351-358 8-719-977-34 s DIODE DTZ12

D401 8-719-941-09 s DIODE DAP202U  
 D402 8-719-941-09 s DIODE DAP202U  
 D403-409 8-719-987-87 s DIODE ERA85-009  
 D410 8-719-975-56 s DIODE 1SS120A  
 D501 8-719-913-37 s DIODE GP-1A06

D502 8-719-913-37 s DIODE GP-1A06  
 D505 8-719-989-22 s DIODE CL-150R-CD  
 D506 8-719-989-22 s DIODE CL-150R-CD  
 D507 8-719-989-22 s DIODE CL-150R-CD  
 D508 8-719-989-22 s DIODE CL-150R-CD

D601 8-719-106-53 s DIODE RD10M-B2  
 D602 8-719-975-85 s DIODE ERB83-004  
 D603 8-719-975-85 s DIODE ERB83-004  
 D604 8-719-106-88 s DIODE RD15M-B1  
 D605 8-719-941-86 s DIODE DAN202U

## (SST-3/3P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
D606	8-719-941-86 s	DIODE DAN202U
D607	8-719-975-85 s	DIODE ERB83-004
D608	8-719-975-85 s	DIODE ERB83-004
D609	8-719-941-86 s	DIODE DAN202U
D610	8-719-941-86 s	DIODE DAN202U
D611	8-719-941-23 s	DIODE DA204U
D612	8-719-941-23 s	DIODE DA204U
D614	8-719-109-76 s	DIODE RD4.3ESB3
D615	8-719-109-76 s	DIODE RD4.3ESB3
D801	8-719-941-23 s	DIODE DA204U
D802	8-719-941-23 s	DIODE DA204U
D803	8-719-105-28 s	DIODE RD2.4M-B
D804	8-719-105-28 s	DIODE RD2.4M-B
D941	8-719-941-86 s	DIODE DAN202U
D961	8-719-941-86 s	DIODE DAN202U
D962	8-719-801-48 s	DIODE 1SS193
FB1	1-543-309-21 s	BEAD, FERRITE
FB601	1-543-309-21 s	BEAD, FERRITE
FB602	1-543-309-21 s	BEAD, FERRITE
FB603	1-543-309-21 s	BEAD, FERRITE
IC1	8-759-925-90 s	IC SN74HC74ANS
IC2	8-759-925-90 s	IC SN74HC74ANS
IC3	8-759-186-38 s	IC TC74VHC32F
IC4	8-759-985-18 s	IC 74AC08SJ
IC5	8-759-209-15 s	IC TC4SU69F
IC6	8-759-985-22 s	IC 74AC11SJ
IC7	8-759-985-17 s	IC 74AC04SJ
IC8	8-759-989-91 s	IC TL7705ACPS
IC9	8-759-925-74 s	IC TC74HC04ANS
IC10	8-759-926-77 s	IC SN74HC541ANS
IC11	8-759-925-75 s	IC SN74HC05ANS
IC12	8-759-925-90 s	IC SN74HC74ANS
IC13	8-759-925-90 s	IC SN74HC74ANS
IC14	8-759-985-78 s	IC 74AC541SJ
IC15	8-759-361-52 s	IC MC68340FE16C
IC16	8-759-985-26 s	IC 74AC74SJ
IC17	8-759-985-26 s	IC 74AC74SJ
IC18	8-759-985-33 s	IC 74AC139SJ
IC19	8-759-985-25 s	IC 74AC32SJ
IC20	8-759-985-25 s	IC 74AC32SJ
IC21	8-759-985-25 s	IC 74AC32SJ
IC22	8-759-985-26 s	IC 74AC74SJ
IC23	8-759-985-26 s	IC 74AC74SJ
IC25	8-752-337-79 s	IC CXK58257AM-10LL
IC26	8-752-337-79 s	IC CXK58257AM-10LL
IC27	8-759-985-25 s	IC 74AC32SJ
IC28	8-759-054-54 s	IC SRM2016M10
IC29	8-759-937-36 s	IC TL1451ACNS
IC30	8-759-009-05 s	IC MC14051BF
IC31	8-759-243-26 s	IC TC35080P
IC32	8-759-035-93 s	IC TC7S32F-TE85L
IC33	8-759-195-02 s	IC TC7S86F-TE85R
IC112	8-759-081-42 s	IC TC74VHC00F
IC113	8-759-059-20 s	IC UPD75004GB-755-3B4
IC114	8-759-083-94 s	IC TC7W74FU
IC115	8-759-922-48 s	IC S-8052ALY
IC116	8-759-927-18 s	IC SN74HCT541NS
IC117	8-759-209-15 s	IC TC4SU69F

## (SST-3/3P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
IC118	8-759-175-77 s	IC CXD8384Q
IC119	8-759-300-71 s	IC HD14053BFP
IC120	8-759-348-84 s	IC HM53051FP-60
IC121	8-759-230-14 s	IC TC4S81F(TE85R)
IC122	8-759-031-84 s	IC TC7S04F
IC151	8-759-926-77 s	IC SN74HC541ANS
IC153	8-759-348-79 s	IC TE7751
IC154	8-759-926-77 s	IC SN74HC541ANS
IC155	8-759-926-77 s	IC SN74HC541ANS
IC156	8-759-926-77 s	IC SN74HC541ANS
IC158	8-759-938-68 s	IC CXD1095Q
IC160	8-759-985-17 s	IC 74AC04SJ
IC164	8-759-927-12 s	IC SN74HCT244ANS
IC165	8-759-175-55 s	IC CXD8805Q
IC167	8-759-053-58 s	IC IDT6116SA25SO
IC301	8-759-320-67 s	IC HM6264ALFP-12LTZ
IC302	8-759-999-19 s	IC MB88323A-PF-K2
IC303	8-759-175-56 s	IC CXD8804Q
IC304	8-759-927-18 s	IC SN74HCT541NS
IC306	8-759-926-77 s	IC SN74HC541ANS
IC307	8-759-926-98 s	IC SN74HC4040ANS
IC308	8-759-926-77 s	IC SN74HC541ANS
IC309	8-759-241-49 s	IC TC74HCT540AF
IC310	1-577-382-11 s	VCO, CRYSTAL 16.000MHz
IC311	8-759-927-15 s	IC SN74HCT245NS
IC312	8-759-926-77 s	IC SN74HC541ANS
IC351	8-759-246-11 s	IC T6963C
IC352	8-759-054-54 s	IC SRM2016M10
IC353	8-759-348-83 s	IC LTC1337CS
IC354	8-759-348-82 s	IC LTC491CS-E2
IC355	8-759-356-96 s	IC LT1180ACS-E2
IC401	8-759-983-74 s	IC LM324NS
IC402	8-759-009-05 s	IC MC14051BF
IC403	8-759-009-05 s	IC MC14051BF
IC404	8-759-348-69 s	IC HD6415108RF10
IC405	8-759-294-75 s	IC CAT93C46KI
IC406	8-759-805-32 s	IC LA7205M
IC407	8-759-805-32 s	IC LA7205M
IC409	8-759-053-58 s	IC IDT6116SA25SO
IC410	8-759-053-58 s	IC IDT6116SA25SO
IC411	8-759-925-78 s	IC SN74HC10ANS
IC412	8-759-927-46 s	IC SN74HC00ANS
IC414	8-759-239-55 s	IC TC74HCT123AF
IC415	8-759-032-01 s	IC MC74HC00AF
IC501	8-759-983-74 s	IC LM324NS
IC502	8-759-925-05 s	IC LM2903PS
IC504	8-752-343-05 s	IC CXD2202Q
IC505	8-759-983-69 s	IC LM358PS
IC506	8-759-938-68 s	IC CXD1095Q
IC601	8-759-925-05 s	IC LM2903PS
IC602	8-759-983-69 s	IC LM358PS
IC603	8-759-983-69 s	IC LM358PS
IC604	8-759-983-69 s	IC LM358PS
IC605	8-759-925-05 s	IC LM2903PS
IC606	8-759-245-52 s	IC TA7291F
IC607	8-759-245-52 s	IC TA7291F
IC608	8-759-983-74 s	IC LM324NS
IC609	8-759-983-74 s	IC LM324NS
IC610	8-759-925-05 s	IC LM2903PS

(SST-3/3P BOARD)

Ref. No.  
or Q'ty Part No. SP DescriptionIC611 8-759-983-69 s IC LM358PS  
IC612 8-759-983-69 s IC LM358PS  
IC801 8-759-173-16 s IC TL062CPW  
IC802 8-759-700-45 s IC NJM4556M-A  
IC803 8-759-209-57 s IC TC4S69FIC851 8-759-066-61 s IC TC4053BFS  
IC852 8-759-710-28 s IC NJM4565M-A  
IC853 8-759-700-07 s IC NJM2903M  
IC901 8-759-066-61 s IC TC4053BFS  
IC902 8-759-710-28 s IC NJM4565M-AIC903 8-759-700-07 s IC NJM2903M  
IC904 8-759-209-15 s IC TC4SU69F  
IC941 8-759-209-15 s IC TC4SU69F  
IC961 8-759-209-15 s IC TC4SU69FL1 1-424-517-11 s COIL, CHOKE 200uH  
L2 1-424-517-11 s COIL, CHOKE 200uH  
L301 1-408-779-31 s INDUCTOR, CHIP 15uH  
L601 1-424-517-11 s COIL, CHOKE 200uH  
L602 1-424-517-11 s COIL, CHOKE 200uHL603 1-424-517-11 s COIL, CHOKE 200uH  
L604 1-424-517-11 s COIL, CHOKE 200uH  
L941 1-424-642-11 s COIL, CHOKE 47uH  
L961 1-424-642-11 s COIL, CHOKE 47uH  
L981 1-424-643-11 s COIL, CHOKE 10uH

L982 1-424-643-11 s COIL, CHOKE 10uH

LV961 1-414-007-11 s COIL, VAR 1.5uH

Q1 8-729-117-32 s TRANSISTOR 2SC4177  
Q2 8-729-029-14 s TRANSISTOR DTC144EUA-T106  
Q3 8-729-321-78 s TRANSISTOR 2SJ176  
Q4 8-729-029-14 s TRANSISTOR DTC144EUA-T106  
Q5 8-729-019-03 s TRANSISTOR 2SB1202FA-T-TLQ6 8-729-019-03 s TRANSISTOR 2SB1202FA-T-TL  
Q7 8-729-141-75 s TRANSISTOR 2SD596DV345  
Q8 8-729-141-75 s TRANSISTOR 2SD596DV345  
Q9 8-729-140-63 s TRANSISTOR 2SA1611-M5M6  
Q151 8-729-140-63 s TRANSISTOR 2SA1611-M5M6Q152 8-729-117-32 s TRANSISTOR 2SC4177  
Q153 8-729-140-63 s TRANSISTOR 2SA1611-M5M6  
Q401 8-729-029-14 s TRANSISTOR DTC144EUA-T106  
Q402 8-729-117-32 s TRANSISTOR 2SC4177  
Q403-409 8-729-143-79 s TRANSISTOR 2SK738Q501 8-729-029-14 s TRANSISTOR DTC144EUA-T106  
Q502 8-729-029-14 s TRANSISTOR DTC144EUA-T106  
Q503 8-729-029-14 s TRANSISTOR DTC144EUA-T106  
Q602 8-729-117-32 s TRANSISTOR 2SC4177  
Q603 8-729-019-03 s TRANSISTOR 2SB1202FA-T-TLQ604 8-729-029-14 s TRANSISTOR DTC144EUA-T106  
Q605 8-729-140-63 s TRANSISTOR 2SA1611-M5M6  
Q606 8-729-807-16 s TRANSISTOR 2SD1621  
Q607 8-729-019-03 s TRANSISTOR 2SB1202FA-T-TL  
Q608 8-729-118-56 s TRANSISTOR 2SK852-X2Q609 8-729-020-93 s TRANSISTOR 2SC2982C-TE12L  
Q610 8-729-029-14 s TRANSISTOR DTC144EUA-T106  
Q611 8-729-029-14 s TRANSISTOR DTC144EUA-T106  
Q612 8-729-019-03 s TRANSISTOR 2SB1202FA-T-TL  
Q613 8-729-019-03 s TRANSISTOR 2SB1202FA-T-TL

Q614 8-729-140-63 s TRANSISTOR 2SA1611-M5M6

(SST-3/3P BOARD)

Ref. No.  
or Q'ty Part No. SP DescriptionQ615 8-729-140-63 s TRANSISTOR 2SA1611-M5M6  
Q616 8-729-117-32 s TRANSISTOR 2SC4177  
Q617 8-729-117-32 s TRANSISTOR 2SC4177  
Q618-625 8-729-019-03 s TRANSISTOR 2SB1202FA-T-TL  
Q626 8-729-140-63 s TRANSISTOR 2SA1611-M5M6Q627 8-729-117-32 s TRANSISTOR 2SC4177  
Q628 8-729-140-63 s TRANSISTOR 2SA1611-M5M6  
Q629 8-729-117-32 s TRANSISTOR 2SC4177  
Q630 8-729-030-03 s TRANSISTOR DTC144EUA-TP  
Q801 8-729-028-91 s TRANSISTOR DTA144EUA-T106Q802 8-729-109-44 s TRANSISTOR 2SK94  
Q851 8-729-117-32 s TRANSISTOR 2SC4177  
Q852 8-729-140-63 s TRANSISTOR 2SA1611-M5M6  
Q853 8-729-028-91 s TRANSISTOR DTA144EUA-T106  
Q854 8-729-824-34 s TRANSISTOR 2SJ187Q855 8-729-030-95 s TRANSISTOR 2SK2151-TD  
Q856 8-729-209-07 s TRANSISTOR 2SC4213-B  
Q901 8-729-117-32 s TRANSISTOR 2SC4177  
Q902 8-729-140-63 s TRANSISTOR 2SA1611-M5M6  
Q903 8-729-028-91 s TRANSISTOR DTA144EUA-T106Q904 8-729-824-34 s TRANSISTOR 2SJ187  
Q905 8-729-030-95 s TRANSISTOR 2SK2151-TD  
Q941 8-729-028-91 s TRANSISTOR DTA144EUA-T106  
Q942 8-729-029-14 s TRANSISTOR DTC144EUA-T106  
Q943 8-729-824-34 s TRANSISTOR 2SJ187Q944 8-729-209-07 s TRANSISTOR 2SC4213-B  
Q945 8-729-209-07 s TRANSISTOR 2SC4213-B  
Q961 8-729-028-91 s TRANSISTOR DTA144EUA-T106  
Q962 8-729-029-14 s TRANSISTOR DTC144EUA-T106  
Q963 8-729-824-34 s TRANSISTOR 2SJ187Q964 8-729-209-07 s TRANSISTOR 2SC4213-B  
Q965 8-729-209-07 s TRANSISTOR 2SC4213-B  
Q966 8-729-027-56 s TRANSISTOR DTC143TKA-T146R1 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
R2 1-249-406-11 s CARBON 120 5% 1/4W  
R3 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
R4 1-216-039-00 s METAL, CHIP 390 5% 1/10W  
R5 1-216-073-00 s METAL, CHIP 10K 5% 1/10WR6 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
R7 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
R8 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W  
R9 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
R14 1-216-109-00 s METAL, CHIP 330K 5% 1/10WR17 1-218-179-11 s METAL, CHIP 10M 5% 1/10W  
R18 1-218-179-11 s METAL, CHIP 10M 5% 1/10W  
R25 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
R27-34 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
R36 1-216-073-00 s METAL, CHIP 10K 5% 1/10WR37-41 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
R42 1-216-097-00 s METAL, CHIP 100K 5% 1/10W  
R43 1-216-041-00 s METAL, CHIP 470 5% 1/10W  
R44 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
R45 1-216-073-00 s METAL, CHIP 10K 5% 1/10WR46 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W  
R47 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
R48 1-218-179-11 s METAL, CHIP 10M 5% 1/10W  
R49 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
R50 1-216-089-00 s METAL, CHIP 47k 5% 1/10W

## (SST-3/3P BOARD)

Ref. No.  
or Q'ty Part No. SP Description

R51 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
R52 1-216-113-00 s METAL, CHIP 470K 5% 1/10W  
R53 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
R54 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
R55 1-216-073-00 s METAL, CHIP 10K 5% 1/10W

R56 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
R57 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
R58 1-216-079-00 s METAL, CHIP 18K 5% 1/10W  
R59 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
R60 1-216-081-00 s METAL, CHIP 22K 5% 1/10W

R61 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
R69 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
R70 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
R71 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
R72 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W

R73 1-208-812-11 s METAL, CHIP 18K 0.5% 1/10W  
R74 1-208-812-11 s METAL, CHIP 18K 0.5% 1/10W  
R75 1-216-049-11 s METAL, CHIP 1K 5% 1/10W  
R76 1-216-662-11 s METAL, CHIP 3K 0.5% 1/10W  
R77 1-208-824-11 s METAL, CHIP 56K 0.5% 1/10W

R78 1-208-824-11 s METAL, CHIP 56K 0.5% 1/10W  
R81 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
R82 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
R83 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
R84 1-216-073-00 s METAL, CHIP 10K 5% 1/10W

R85 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
R86 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W  
R87 1-216-041-00 s METAL, CHIP 470 5% 1/10W  
R88 1-216-041-00 s METAL, CHIP 470 5% 1/10W  
R89 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W

R90 1-216-097-00 s METAL, CHIP 100K 5% 1/10W  
R91 1-208-817-11 s METAL, CHIP 30K 0.5% 1/10W  
R92 1-216-097-00 s METAL, CHIP 100K 5% 1/10W  
R93 1-216-085-00 s METAL, CHIP 33K 5% 1/10W  
R94 1-208-803-11 s METAL, CHIP 7.5K 0.5% 1/10W

R95 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
R96 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W  
R97 1-218-759-11 s METAL, CHIP 200K 0.5% 1/10W  
R98 1-216-684-11 s METAL, CHIP 24K 0.5% 1/10W  
R99 1-216-073-00 s METAL, CHIP 10K 5% 1/10W

R100 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W  
R101 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
R102 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
R111 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
R112 1-216-073-00 s METAL, CHIP 10K 5% 1/10W

R113 1-216-081-00 s METAL, CHIP 22K 5% 1/10W  
R114 1-216-081-00 s METAL, CHIP 22K 5% 1/10W  
R115 1-216-003-11 s METAL, CHIP 12 5% 1/10W  
R116 1-216-003-11 s METAL, CHIP 12 5% 1/10W  
R121 1-216-081-00 s METAL, CHIP 22K 5% 1/10W

R127 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
R128 1-216-073-00 s METAL, CHIP 10K 5% 1/10W [for NTSC]  
R129 1-216-073-00 s METAL, CHIP 10K 5% 1/10W [for PAL]  
R130 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
R131 1-216-133-00 s METAL, CHIP 3.3M 5% 1/10W

R134 1-216-133-00 s METAL, CHIP 3.3M 5% 1/10W  
R135 1-216-097-00 s METAL, CHIP 100K 5% 1/10W  
R136 1-216-043-00 s METAL, CHIP 560 5% 1/10W  
R137 1-216-073-00 s METAL, CHIP 10K 5% 1/10W

## (SST-3/3P BOARD)

Ref. No.  
or Q'ty Part No. SP Description

R138 1-216-129-00 s METAL, CHIP 2.2M 5% 1/10W  
R139 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
R151-158 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W  
R208 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
R209 1-216-089-00 s METAL, CHIP 47k 5% 1/10W

R210 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
R211 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
R215 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W  
R216 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W  
R217 1-216-097-00 s METAL, CHIP 100K 5% 1/10W

R218 1-216-097-00 s METAL, CHIP 100K 5% 1/10W  
R219 1-216-097-00 s METAL, CHIP 100K 5% 1/10W  
R220 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
R221 1-216-037-00 s METAL, CHIP 330 5% 1/10W  
R222 1-216-089-00 s METAL, CHIP 47k 5% 1/10W

R223 1-247-855-11 s CARBON 10K 5% 1/4W  
R252 1-216-073-00 s METAL, CHIP 10K 5% 1/10W [for NTSC]  
R253 1-216-073-00 s METAL, CHIP 10K 5% 1/10W [for PAL]  
R256 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
R258 1-216-089-00 s METAL, CHIP 47k 5% 1/10W

R260 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
R261 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
R262 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
R301 1-216-049-11 s METAL, CHIP 1K 5% 1/10W  
R302 1-216-073-00 s METAL, CHIP 10K 5% 1/10W

R311 1-216-081-00 s METAL, CHIP 22K 5% 1/10W  
R312 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
R313 1-216-049-11 s METAL, CHIP 1K 5% 1/10W  
R314 1-216-049-11 s METAL, CHIP 1K 5% 1/10W  
R315 1-216-089-00 s METAL, CHIP 47k 5% 1/10W

R316 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
R317 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
R318 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
R321 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
R339 1-216-089-00 s METAL, CHIP 47k 5% 1/10W

R340 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
R351 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
R352 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
R353 1-216-049-11 s METAL, CHIP 1K 5% 1/10W  
R354 1-216-049-11 s METAL, CHIP 1K 5% 1/10W

R355 1-216-025-00 s METAL, CHIP 100 5% 1/10W  
R356 1-216-025-00 s METAL, CHIP 100 5% 1/10W  
R357 1-216-025-00 s METAL, CHIP 100 5% 1/10W  
R401 1-216-687-11 s METAL, CHIP 33K 0.5% 1/10W  
R402 1-208-806-11 s METAL, CHIP 10K 0.5% 1/10W

R407-414 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
R415 1-216-103-00 s METAL, CHIP 180k 5% 1/10W  
R416 1-216-097-00 s METAL, CHIP 100K 5% 1/10W  
R417 1-216-079-00 s METAL, CHIP 18K 5% 1/10W  
R418 1-216-089-00 s METAL, CHIP 47k 5% 1/10W

R419 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W  
R420 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
R421 1-216-079-00 s METAL, CHIP 18K 5% 1/10W  
R423 1-216-103-00 s METAL, CHIP 180k 5% 1/10W  
R425 1-216-049-11 s METAL, CHIP 1K 5% 1/10W

R426 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
R427 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W  
R428 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
R429 1-216-073-00 s METAL, CHIP 10K 5% 1/10W

## (SST-3/3P BOARD)

Ref. No.  
or Q'ty Part No. SP Description

R436 1-216-049-11 s METAL, CHIP 1K 5% 1/10W  
 R437 1-216-682-11 s METAL, CHIP 20K 0.5% 1/10W  
 R438 1-208-806-11 s METAL, CHIP 10K 0.5% 1/10W  
 R439 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W  
 R440 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W

R441 1-216-097-00 s METAL, CHIP 100K 5% 1/10W  
 R442 1-208-822-11 s METAL, CHIP 47K 0.5% 1/10W  
 R443 1-208-822-11 s METAL, CHIP 47K 0.5% 1/10W  
 R444 1-216-097-00 s METAL, CHIP 100K 5% 1/10W  
 R445 1-216-089-00 s METAL, CHIP 47k 5% 1/10W

R446 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
 R447 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R448-470 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
 R471 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W  
 R472 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W

R473 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W  
 R474-480 1-216-121-00 s METAL, CHIP 1M 5% 1/10W  
 R481-487 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W  
 R488 1-216-025-00 s METAL, CHIP 100 5% 1/10W  
 R489 1-216-025-00 s METAL, CHIP 100 5% 1/10W

R490 1-216-025-00 s METAL, CHIP 100 5% 1/10W  
 R491 1-216-025-00 s METAL, CHIP 100 5% 1/10W  
 R492 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
 R493 1-216-121-00 s METAL, CHIP 1M 5% 1/10W  
 R494 1-247-871-11 s CARBON 47K 5% 1/4W

R501-506 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
 R508 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W  
 R509 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W  
 R510 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R511 1-216-073-00 s METAL, CHIP 10K 5% 1/10W

R512 1-216-105-00 s METAL, CHIP 220K 5% 1/10W  
 R513 1-216-105-00 s METAL, CHIP 220K 5% 1/10W  
 R517 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R519 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R521 1-216-033-00 s METAL, CHIP 220 5% 1/10W

R522 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R523 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R526 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R527 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R528 1-216-073-00 s METAL, CHIP 10K 5% 1/10W

R530 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R534 1-216-105-00 s METAL, CHIP 220K 5% 1/10W  
 R535 1-216-105-00 s METAL, CHIP 220K 5% 1/10W  
 R536 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R538 1-216-073-00 s METAL, CHIP 10K 5% 1/10W

R540 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
 R541 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W  
 R542 1-216-097-00 s METAL, CHIP 100K 5% 1/10W  
 R543 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
 R580 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W

R581 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R582 1-247-847-11 s CARBON 4.7K 5% 1/4W  
 R583 1-247-847-11 s CARBON 4.7K 5% 1/4W  
 R601 1-218-768-11 s METAL 470K 0.5% 1/10W  
 R602 1-218-768-11 s METAL 470K 0.5% 1/10W

R603 1-216-097-00 s METAL, CHIP 100K 5% 1/10W  
 R604 1-216-097-00 s METAL, CHIP 100K 5% 1/10W  
 R605 1-218-770-11 s METAL, CHIP 560K 0.50% 1/10W  
 R606 1-216-073-00 s METAL, CHIP 10K 5% 1/10W

## (SST-3/3P BOARD)

Ref. No.  
or Q'ty Part No. SP Description

R607 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R608 1-208-822-11 s METAL, CHIP 47K 0.5% 1/10W  
 R609 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W  
 R610 1-208-822-11 s METAL, CHIP 47K 0.5% 1/10W  
 R611 1-216-698-11 s METAL, CHIP 91K 0.5% 1/10W

R612 1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W  
 R613 1-216-097-00 s METAL, CHIP 100K 5% 1/10W  
 R614 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R615 1-216-682-11 s METAL, CHIP 20K 0.5% 1/10W  
 R616 1-218-756-11 s METAL, CHIP 150K 0.5% 1/10W

R617 1-216-687-11 s METAL, CHIP 33K 0.5% 1/10W  
 R618 1-218-756-11 s METAL, CHIP 150K 0.5% 1/10W  
 R619 1-216-697-11 s METAL, CHIP 82K 0.5% 1/10W  
 R620 1-218-760-11 s METAL, CHIP 220K 0.5% 1/10W  
 R621 1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W

R622 1-208-822-11 s METAL, CHIP 47K 0.5% 1/10W  
 R623 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W  
 R624 1-218-236-11 s METAL, CHIP 1 10% 1/4W  
 R625 1-208-822-11 s METAL, CHIP 47K 0.5% 1/10W  
 R626 1-218-236-11 s METAL, CHIP 1 10% 1/4W

R627 1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W  
 R628 1-218-760-11 s METAL, CHIP 220K 0.5% 1/10W  
 R629 1-218-236-11 s METAL, CHIP 1 10% 1/4W  
 R630 1-216-687-11 s METAL, CHIP 33K 0.5% 1/10W  
 R631 1-216-049-11 s METAL, CHIP 1K 5% 1/10W

R632 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W  
 R633 1-216-697-11 s METAL, CHIP 82K 0.5% 1/10W  
 R634 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W  
 R635 1-218-236-11 s METAL, CHIP 1 10% 1/4W  
 R636 1-218-236-11 s METAL, CHIP 1 10% 1/4W

R637 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W  
 R638 1-218-236-11 s METAL, CHIP 1 10% 1/4W  
 R639 1-208-806-11 s METAL, CHIP 10K 0.5% 1/10W  
 R640 1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W  
 R641 1-216-049-11 s METAL, CHIP 1K 5% 1/10W

R642 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W  
 R643 1-216-067-00 s METAL, CHIP 5.6K 5% 1/10W  
 R644 1-216-097-00 s METAL, CHIP 100K 5% 1/10W  
 R645 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W  
 R646 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W

R647 1-216-081-00 s METAL, CHIP 22K 5% 1/10W  
 R648 1-218-236-11 s METAL, CHIP 1 10% 1/4W  
 R649 1-218-236-11 s METAL, CHIP 1 10% 1/4W  
 R650 1-218-236-11 s METAL, CHIP 1 10% 1/4W  
 R651 1-216-097-00 s METAL, CHIP 100K 5% 1/10W

R652 1-216-097-00 s METAL, CHIP 100K 5% 1/10W  
 R653 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R654 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R655 1-208-822-11 s METAL, CHIP 47K 0.5% 1/10W  
 R656 1-208-822-11 s METAL, CHIP 47K 0.5% 1/10W

R657 1-208-822-11 s METAL, CHIP 47K 0.5% 1/10W  
 R658 1-208-822-11 s METAL, CHIP 47K 0.5% 1/10W  
 R659 1-216-695-11 s METAL, CHIP 68K 0.5% 1/10W  
 R660 1-216-695-11 s METAL, CHIP 68K 0.5% 1/10W  
 R661 1-216-049-11 s METAL, CHIP 1K 5% 1/10W

R662 1-216-081-00 s METAL, CHIP 22K 5% 1/10W  
 R663 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R664 1-216-049-11 s METAL, CHIP 1K 5% 1/10W  
 R665 1-216-049-11 s METAL, CHIP 1K 5% 1/10W

## (SST-3/3P BOARD)

Ref. No. or Q'ty	Part No.	SP Description	Ref. No. or Q'ty	Part No.	SP Description
R666	1-216-049-11	s METAL, CHIP 1K 5% 1/10W	R807	1-216-089-00	s METAL, CHIP 47k 5% 1/10W
R667	1-216-121-00	s METAL, CHIP 1M 5% 1/10W	R808	1-216-105-00	s METAL, CHIP 220K 5% 1/10W
R668	1-216-081-00	s METAL, CHIP 22K 5% 1/10W	R809	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W
R669	1-216-073-00	s METAL, CHIP 10K 5% 1/10W	R810	1-216-089-00	s METAL, CHIP 47k 5% 1/10W
R670	1-216-121-00	s METAL, CHIP 1M 5% 1/10W	R811	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R671	1-216-089-00	s METAL, CHIP 47k 5% 1/10W	R812	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R672	1-216-089-00	s METAL, CHIP 47k 5% 1/10W	R813	1-208-799-11	s METAL, CHIP 5.1K 0.5% 1/10W
R673	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W	R814	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R674	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W	R815	1-216-295-00	s RES, CHIP 0
R675	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W	R816	1-216-295-00	s RES, CHIP 0
R676	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W	R817	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R677-683	1-216-089-00	s METAL, CHIP 47k 5% 1/10W	R818	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R684	1-216-097-00	s METAL, CHIP 100K 5% 1/10W	R819	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R685	1-216-089-00	s METAL, CHIP 47k 5% 1/10W	R820	1-216-295-00	s RES, CHIP 0
R686	1-216-089-00	s METAL, CHIP 47k 5% 1/10W	R821	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R687	1-216-089-00	s METAL, CHIP 47k 5% 1/10W	R853	1-216-295-00	s RES, CHIP 0
R688	1-216-097-00	s METAL, CHIP 100K 5% 1/10W	R854	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R689	1-216-049-11	s METAL, CHIP 1K 5% 1/10W	R855	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R690	1-216-049-11	s METAL, CHIP 1K 5% 1/10W	R856	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R691	1-218-760-11	s METAL, CHIP 220K 0.5% 1/10W	R857	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R692	1-218-760-11	s METAL, CHIP 220K 0.5% 1/10W	R858	1-216-113-00	s METAL, CHIP 470K 5% 1/10W
R693	1-216-073-00	s METAL, CHIP 10K 5% 1/10W	R859	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W
R694	1-216-073-00	s METAL, CHIP 10K 5% 1/10W	R860	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R695	1-216-049-11	s METAL, CHIP 1K 5% 1/10W	R861	1-208-774-11	s METAL, CHIP 470 0.5% 1/10W
R696	1-216-097-00	s METAL, CHIP 100K 5% 1/10W	R862	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W
R697	1-216-097-00	s METAL, CHIP 100K 5% 1/10W	R863	1-218-756-11	s METAL, CHIP 150K 0.5% 1/10W
R698	1-216-049-11	s METAL, CHIP 1K 5% 1/10W	R864	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R699	1-218-760-11	s METAL, CHIP 220K 0.5% 1/10W	R865	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R700	1-218-760-11	s METAL, CHIP 220K 0.5% 1/10W	R866	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R701	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W	R867	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R702	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W	R868	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W
R703	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W	R869	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R704	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W	R870	1-216-685-11	s METAL, CHIP 27K 0.5% 1/10W
R705-710	1-218-236-11	s METAL, CHIP 1 10% 1/4W	R871	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R711	1-216-097-00	s METAL, CHIP 100K 5% 1/10W	R872	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R712	1-216-097-00	s METAL, CHIP 100K 5% 1/10W	R873	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R713	1-216-049-11	s METAL, CHIP 1K 5% 1/10W	R874	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R714	1-216-073-00	s METAL, CHIP 10K 5% 1/10W	R901	1-216-295-00	s RES, CHIP 0
R715	1-216-049-11	s METAL, CHIP 1K 5% 1/10W	R902	1-216-295-00	s RES, CHIP 0
R716	1-216-073-00	s METAL, CHIP 10K 5% 1/10W	R903	1-216-295-00	s RES, CHIP 0
R717	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W	R904	1-216-101-00	s METAL, CHIP 150K 5% 1/10W
R718	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W	R905	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R719	1-216-097-00	s METAL, CHIP 100K 5% 1/10W	R906	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R720	1-216-097-00	s METAL, CHIP 100K 5% 1/10W	R907	1-216-101-00	s METAL, CHIP 150K 5% 1/10W
R721	1-216-089-00	s METAL, CHIP 47k 5% 1/10W	R908	1-216-113-00	s METAL, CHIP 470K 5% 1/10W
R722	1-216-089-00	s METAL, CHIP 47k 5% 1/10W	R909	1-216-657-11	s METAL, CHIP 1.8K 0.5% 1/10W
R723	1-216-089-00	s METAL, CHIP 47k 5% 1/10W	R910	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R724	1-216-089-00	s METAL, CHIP 47k 5% 1/10W	R911	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R725	1-216-085-00	s METAL, CHIP 33K 5% 1/10W	R912	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W
R726	1-216-073-00	s METAL, CHIP 10K 5% 1/10W	R913	1-208-774-11	s METAL, CHIP 470 0.5% 1/10W
R727	1-216-085-00	s METAL, CHIP 33K 5% 1/10W	R914	1-218-756-11	s METAL, CHIP 150K 0.5% 1/10W
R728	1-216-073-00	s METAL, CHIP 10K 5% 1/10W	R915	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R729	1-247-855-11	s CARBON 10K 5% 1/4W	R916	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R801	1-216-295-00	s RES, CHIP 0	R917	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R802	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W	R918	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R803	1-216-085-00	s METAL, CHIP 33K 5% 1/10W	R919	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W
R804	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W	R920	1-218-762-11	s METAL, CHIP 270K 0.5% 1/10W
R805	1-216-097-00	s METAL, CHIP 100K 5% 1/10W	R921	1-218-762-11	s METAL, CHIP 270K 0.5% 1/10W
R806	1-216-097-00	s METAL, CHIP 100K 5% 1/10W	R922	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W

## (SST-3/3P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R923	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R924	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R925	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R926	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R927	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R941	1-216-295-00	s RES, CHIP 0
R942	1-208-822-11	s METAL, CHIP 47K 0.5% 1/10W
R943	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R944	1-216-111-00	s METAL, CHIP 390K 5% 1/10W
R945	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W
R946	1-208-822-11	s METAL, CHIP 47K 0.5% 1/10W
R947	1-208-822-11	s METAL, CHIP 47K 0.5% 1/10W
R948	1-216-298-00	s METAL 2.2 5% 1/10W
R949	1-216-298-00	s METAL 2.2 5% 1/10W
R950	1-216-298-00	s METAL 2.2 5% 1/10W
R951	1-216-298-00	s METAL 2.2 5% 1/10W
R961	1-216-295-00	s RES, CHIP 0
R962	1-208-822-11	s METAL, CHIP 47K 0.5% 1/10W
R963	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R964	1-216-111-00	s METAL, CHIP 390K 5% 1/10W
R965	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W
R966	1-208-822-11	s METAL, CHIP 47K 0.5% 1/10W
R967	1-208-822-11	s METAL, CHIP 47K 0.5% 1/10W
R968	1-216-298-00	s METAL 2.2 5% 1/10W
R969	1-216-298-00	s METAL 2.2 5% 1/10W
R970	1-216-295-00	s RES, CHIP 0
R971	1-216-298-00	s METAL 2.2 5% 1/10W
R972	1-216-298-00	s METAL 2.2 5% 1/10W
RB1	1-239-308-11	s RESISTOR BLOCK, CHIP 47kx8
RB2	1-239-308-11	s RESISTOR BLOCK, CHIP 47kx8
RB3	1-236-908-11	s NETWORK RESISTOR (CHIP) 10K
RB4	1-236-908-11	s NETWORK RESISTOR (CHIP) 10K
RB101	1-239-286-11	s NETWORK RESISTOR (CHIP) 22K
RB102	1-239-286-11	s NETWORK RESISTOR (CHIP) 22K
RB151-163	1-239-308-11	s RESISTOR BLOCK, CHIP 47kx8
RB301-305	1-239-308-11	s RESISTOR BLOCK, CHIP 47kx8
RB401	1-236-908-11	s NETWORK RESISTOR (CHIP) 10K
RB402	1-239-430-11	s NETWORK RESISTOR (CHIP) 4.7K
RB403	1-239-430-11	s NETWORK RESISTOR (CHIP) 4.7K
RB404	1-239-308-11	s RESISTOR BLOCK, CHIP 47kx8
RB405	1-239-308-11	s RESISTOR BLOCK, CHIP 47kx8
RB406	1-239-308-11	s RESISTOR BLOCK, CHIP 47kx8
RB501	1-236-907-11	s NETWORK RESISTOR (CHIP) 100K
RB502	1-236-904-11	s NETWORK RESISTOR (CHIP) 1.0K
RB503	1-239-430-11	s NETWORK RESISTOR (CHIP) 4.7K
RB504	1-239-430-11	s NETWORK RESISTOR (CHIP) 4.7K
RB505	1-239-430-11	s NETWORK RESISTOR (CHIP) 4.7K
RB506	1-236-904-11	s NETWORK RESISTOR (CHIP) 1.0K
RB508	1-239-430-11	s NETWORK RESISTOR (CHIP) 4.7K
RB509	1-239-430-11	s NETWORK RESISTOR (CHIP) 4.7K
RB510	1-239-430-11	s NETWORK RESISTOR (CHIP) 4.7K
RB511	1-239-430-11	s NETWORK RESISTOR (CHIP) 4.7K
RB512	1-239-305-11	s RESISTOR BLOCK, CHIP 4.7kx8
RB513	1-236-907-11	s NETWORK RESISTOR (CHIP) 100K
RB514	1-239-430-11	s NETWORK RESISTOR (CHIP) 4.7K

## (SST-3/3P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
RV1	1-237-035-11	s RES, ADJ METAL 5K
RV2	1-237-035-11	s RES, ADJ METAL 5K
RV401	1-241-520-11	s RES, VAR CARBON 10K
RV402	1-237-038-11	s RES, ADJ METAL 50K
RY961	1-515-716-11	s RELAY (TQ2-5V)
S1	1-553-856-00	s SWITCH, TACTILE
S151	1-692-536-11	s SWITCH, DIP 8-CKT
S501	1-692-032-21	s SWITCH, PUSH
S502	1-692-032-21	s SWITCH, PUSH
S503	1-692-881-21	s SWITCH, SLIDE
X1	1-578-741-11	s CRYSTAL 31.25 KHz
X2	1-760-488-21	s CRYSTAL 3.6864000MHz
X111	1-567-160-21	s RESONATOR, CERAMIC 4.19MHz
X112	1-578-742-11	s CRYSTAL 31.4685KHz [for NTSC]
	1-578-741-11	s CRYSTAL 31.25 KHz [for PAL]
X113	1-579-993-21	s CRYSTAL 13.50MHz
X401	1-579-996-21	s RESONATOR, CERAMIC 20.00MHz

## TR-57 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6754-272-A o	OUNTED CIRCUIT BOARD, TR-57
4pcs	1-564-831-11 o	CONTACT, FEMALE
4pcs	1-569-193-11 o	CONTACT, FEMALE
CN1	1-562-737-11 o	HOUSING, 4P
CN954	1-569-197-41 o	HOUSING, 4P
PD1	8-745-001-07 s	DME DM-230-1

## VPR-12/12P BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8276-914-A o	OUNTED CIRCUIT BOARD, VPR-12 [for NTSC]
	A-8276-942-A o	OUNTED CIRCUIT BOARD, VPR-12P [for PAL]
C1	1-163-033-00 s	CERAMIC 0.022uF 50V
C2	1-163-033-00 s	CERAMIC 0.022uF 50V
C3	1-163-033-00 s	CERAMIC 0.022uF 50V
C4	1-163-033-00 s	CERAMIC 0.022uF 50V
C5	1-163-237-11 s	CERAMIC, CHIP 27PF 5% 50V [for NTSC]
	1-163-243-11 s	CERAMIC, CHIP 47PF 5% 50V [for PAL]
C7	1-127-517-11 s	ALMUN SOLID 150uF 20% 16V
C8	1-127-517-11 s	ALMUN SOLID 150uF 20% 16V
C9	1-163-033-00 s	CERAMIC 0.022uF 50V
C10	1-127-517-11 s	ALMUN SOLID 150uF 20% 16V
C11	1-163-033-00 s	CERAMIC 0.022uF 50V
C12	1-127-517-11 s	ALMUN SOLID 150uF 20% 16V
C13	1-163-121-00 s	CERAMIC, CHIP 150PF 5% 50V [for NTSC]
	1-163-125-00 s	CERAMIC, CHIP 220PF 5% 50V [for PAL]
C14	1-163-033-00 s	CERAMIC 0.022uF 50V
C15	1-163-033-00 s	CERAMIC 0.022uF 50V
C16	1-163-033-00 s	CERAMIC 0.022uF 50V
C17	1-163-033-00 s	CERAMIC 0.022uF 50V
C18	1-164-232-11 s	CERAMIC, CHIP 0.01uF 10% 100V
C19	1-163-249-11 s	CERAMIC, CHIP 82pF 5% 50V [for NTSC]
	1-163-243-11 s	CERAMIC, CHIP 47PF 5% 50V [for PAL]
C20	1-163-237-11 s	CERAMIC, CHIP 27PF 5% 50V [for NTSC]
	1-163-235-11 s	CERAMIC, CHIP 22PF 5% 50V [for PAL]
C21	1-163-237-11 s	CERAMIC, CHIP 27PF 5% 50V [for NTSC]
	1-163-235-11 s	CERAMIC, CHIP 22PF 5% 50V [for PAL]
C22	1-163-253-11 s	CERAMIC, CHIP 120PF 5% 50V [for NTSC]
	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V [for PAL]
C23	1-163-133-00 s	CERAMIC, CHIP 470PF 5% 50V
C24	1-163-125-00 s	CERAMIC, CHIP 220PF 5% 50V
C25	1-163-243-11 s	CERAMIC, CHIP 47PF 5% 50V [for NTSC]
	1-163-239-11 s	CERAMIC, CHIP 33PF 5% 50V [for PAL]
C26	1-163-243-11 s	CERAMIC, CHIP 47PF 5% 50V [for NTSC]
	1-163-239-11 s	CERAMIC, CHIP 33PF 5% 50V [for PAL]
C27	1-163-125-00 s	CERAMIC, CHIP 220PF 5% 50V
C28	1-127-517-11 s	ALMUN SOLID 150uF 20% 16V
C29	1-127-517-11 s	ALMUN SOLID 150uF 20% 16V
C30	1-163-237-11 s	CERAMIC, CHIP 27PF 5% 50V [for NTSC]
	1-163-239-11 s	CERAMIC, CHIP 33PF 5% 50V [for PAL]
C31	1-127-517-11 s	ALMUN SOLID 150uF 20% 16V
C32	1-164-232-11 s	CERAMIC, CHIP 0.01uF 10% 100V
C33	1-163-033-00 s	CERAMIC 0.022uF 50V
C34	1-163-033-00 s	CERAMIC 0.022uF 50V
C35	1-163-033-00 s	CERAMIC 0.022uF 50V

## (VPR-12/12P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C36	1-163-033-00 s	CERAMIC 0.022uF 50V
C38	1-163-033-00 s	CERAMIC 0.022uF 50V
C39	1-163-033-00 s	CERAMIC 0.022uF 50V
C40	1-163-033-00 s	CERAMIC 0.022uF 50V
C41	1-104-559-11 s	FILM, CHIP 0.047uF 5% 16V
C42	1-163-033-00 s	CERAMIC 0.022uF 50V
C43	1-163-033-00 s	CERAMIC 0.022uF 50V
C44	1-163-033-00 s	CERAMIC 0.022uF 50V
C45	1-135-070-00 s	TANTALUM, CHIP 0.1uF 10% 35V
C46	1-135-070-00 s	TANTALUM, CHIP 0.1uF 10% 35V
C47	1-135-070-00 s	TANTALUM, CHIP 0.1uF 10% 35V
C48	1-135-072-21 s	TANTALUM, CHIP 0.22uF 10% 35V
C49	1-135-072-21 s	TANTALUM, CHIP 0.22uF 10% 35V
C50	1-135-072-21 s	TANTALUM, CHIP 0.22uF 10% 35V
C51	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C52	1-163-253-11 s	CERAMIC, CHIP 120PF 5% 50V [for NTSC]
	1-163-121-00 s	CERAMIC, CHIP 150PF 5% 50V [for PAL]
C54	1-163-033-00 s	CERAMIC 0.022uF 50V
C53	1-163-038-00 s	CERAMIC 0.1uF 25V
C55	1-163-033-00 s	CERAMIC 0.022uF 50V
C56	1-163-033-00 s	CERAMIC 0.022uF 50V
C57	1-163-033-00 s	CERAMIC 0.022uF 50V
C58	1-135-216-11 s	TANTALUM, CHIP 10uF 20% 10V
C59	1-163-033-00 s	CERAMIC 0.022uF 50V
C62	1-163-033-00 s	CERAMIC 0.022uF 50V
C63	1-163-033-00 s	CERAMIC 0.022uF 50V
C60	1-135-216-11 s	TANTALUM, CHIP 10uF 20% 10V
C61	1-135-216-11 s	TANTALUM, CHIP 10uF 20% 10V
C64	1-109-894-11 s	ELECT 33uF 20% 10V
C65	1-164-004-11 s	CERAMIC, CHIP 0.1uF 10% 25V
C66	1-163-033-00 s	CERAMIC 0.022uF 50V
C67	1-163-033-00 s	CERAMIC 0.022uF 50V
C68	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C69	1-163-033-00 s	CERAMIC 0.022uF 50V
C70	1-163-038-00 s	CERAMIC 0.1uF 25V
C71	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C72	1-164-232-11 s	CERAMIC, CHIP 0.01uF 10% 100V
C73	1-163-243-11 s	CERAMIC, CHIP 47PF 5% 50V
C74	1-164-232-11 s	CERAMIC, CHIP 0.01uF 10% 100V
C75	1-163-243-11 s	CERAMIC, CHIP 47PF 5% 50V
C76	1-163-038-00 s	CERAMIC 0.1uF 25V
C77	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C78	1-163-038-00 s	CERAMIC 0.1uF 25V
C79	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C80-85	1-163-038-00 s	CERAMIC 0.1uF 25V
C86-93	1-163-033-00 s	CERAMIC 0.022uF 50V
C95	1-163-033-00 s	CERAMIC 0.022uF 50V
C96	1-163-033-00 s	CERAMIC 0.022uF 50V
C99	1-163-033-00 s	CERAMIC 0.022uF 50V
C94	1-126-394-11 s	ELECT, CHIP 10uF 20% 16V
C97	1-135-160-21 s	TANTALUM 15uF 20% 16V
C98	1-109-894-11 s	ELECT 33uF 20% 10V
C100	1-164-004-11 s	CERAMIC, CHIP 0.1uF 10% 25V
C101	1-163-038-00 s	CERAMIC 0.1uF 25V
C102	1-163-033-00 s	CERAMIC 0.022uF 50V
C103	1-163-033-00 s	CERAMIC 0.022uF 50V
C104	1-163-033-00 s	CERAMIC 0.022uF 50V

(VPR-12/12P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
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C105	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C106	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C107	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C108	1-163-038-00	s CERAMIC 0.1uF 25V
C109	1-163-038-00	s CERAMIC 0.1uF 25V

C110	1-163-033-00	s CERAMIC 0.022uF 50V
C111	1-163-033-00	s CERAMIC 0.022uF 50V
C112	1-163-033-00	s CERAMIC 0.022uF 50V
C113	1-104-608-11	s ELECT, CHIP 33uF 20% 6.3V
C114	1-104-608-11	s ELECT, CHIP 33uF 20% 6.3V

C115	1-163-033-00	s CERAMIC 0.022uF 50V
C116	1-163-033-00	s CERAMIC 0.022uF 50V
C117	1-163-033-00	s CERAMIC 0.022uF 50V
C118	1-163-033-00	s CERAMIC 0.022uF 50V
C119	1-163-038-00	s CERAMIC 0.1uF 25V

C120	1-163-038-00	s CERAMIC 0.1uF 25V
C121-125	1-104-608-11	s ELECT, CHIP 33uF 20% 6.3V
C126	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C127-131	1-163-038-00	s CERAMIC 0.1uF 25V
C132	1-163-033-00	s CERAMIC 0.022uF 50V

C133	1-163-033-00	s CERAMIC 0.022uF 50V
C134	1-109-894-11	s ELECT 33uF 20% 10V
C200	1-163-033-00	s CERAMIC 0.022uF 50V
C201	1-163-033-00	s CERAMIC 0.022uF 50V
C202	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V

C203	1-163-033-00	s CERAMIC 0.022uF 50V
C204	1-163-033-00	s CERAMIC 0.022uF 50V
C205	1-163-033-00	s CERAMIC 0.022uF 50V
C206	1-163-033-00	s CERAMIC 0.022uF 50V
C207	1-127-517-11	s ALMUN SOLID 150uF 20% 16V

C208	1-127-517-11	s ALMUN SOLID 150uF 20% 16V
C209	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C210	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C211	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C213	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V

C214	1-127-517-11	s ALMUN SOLID 150uF 20% 16V
C215	1-163-237-11	s CERAMIC, CHIP 27PF 5% 50V [for NTSC]
	1-163-241-11	s CERAMIC, CHIP 39PF 5% 50V [for PAL]

C217	1-163-033-00	s CERAMIC 0.022uF 50V
C218	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C219	1-163-125-00	s CERAMIC, CHIP 220PF 5% 50V
C220-224	1-163-033-00	s CERAMIC 0.022uF 50V
C225	1-135-070-00	s TANTALUM, CHIP 0.1uF 10% 35V

C226	1-163-033-00	s CERAMIC 0.022uF 50V
C227	1-135-072-21	s TANTALUM, CHIP 0.22uF 10% 35V
C228	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C229	1-163-033-00	s CERAMIC 0.022uF 50V
C230	1-163-033-00	s CERAMIC 0.022uF 50V

C231	1-163-033-00	s CERAMIC 0.022uF 50V
C232	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V
C233	1-163-033-00	s CERAMIC 0.022uF 50V
C234	1-163-033-00	s CERAMIC 0.022uF 50V
C235	1-163-033-00	s CERAMIC 0.022uF 50V

C236	1-163-033-00	s CERAMIC 0.022uF 50V
C237	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C238	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C239	1-163-033-00	s CERAMIC 0.022uF 50V
C240	1-163-033-00	s CERAMIC 0.022uF 50V

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Ref. No. or Q'ty	Part No.	SP Description
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C241	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C242	1-163-125-00	s CERAMIC, CHIP 220PF 5% 50V
C243	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C244	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C245	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V

C246	1-163-033-00	s CERAMIC 0.022uF 50V
C247	1-163-133-00	s CERAMIC, CHIP 470PF 5% 50V
C248	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C250	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C251	1-163-133-00	s CERAMIC, CHIP 470PF 5% 50V

C252	1-163-033-00	s CERAMIC 0.022uF 50V
C253	1-163-263-11	s CERAMIC, CHIP 330PF 5% 50V
C254	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C255	1-163-125-00	s CERAMIC, CHIP 220PF 5% 50V
C256	1-163-125-00	s CERAMIC, CHIP 220PF 5% 50V

C257	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C258	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C259	1-163-033-00	s CERAMIC 0.022uF 50V
C260	1-163-033-00	s CERAMIC 0.022uF 50V
C261	1-163-033-00	s CERAMIC 0.022uF 50V

C262	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C263	1-163-033-00	s CERAMIC 0.022uF 50V
C264	1-163-033-00	s CERAMIC 0.022uF 50V
C265	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C266	1-163-033-00	s CERAMIC 0.022uF 50V

C267	1-163-033-00	s CERAMIC 0.022uF 50V
C268	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C269	1-163-033-00	s CERAMIC 0.022uF 50V
C270	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C272	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V

C273	1-163-033-00	s CERAMIC 0.022uF 50V
C274	1-163-033-00	s CERAMIC 0.022uF 50V
C275	1-163-033-00	s CERAMIC 0.022uF 50V
C276	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C277	1-163-033-00	s CERAMIC 0.022uF 50V

C278	1-109-894-11	s ELECT 33uF 20% 10V
C279	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C280	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C281	1-163-033-00	s CERAMIC 0.022uF 50V
C282	1-163-033-00	s CERAMIC 0.022uF 50V

C283	1-163-033-00	s CERAMIC 0.022uF 50V
C284	1-163-038-00	s CERAMIC 0.1uF 25V
C285	1-163-038-00	s CERAMIC 0.1uF 25V
C286	1-163-038-00	s CERAMIC 0.1uF 25V
C287	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V

C288	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C289	1-163-033-00	s CERAMIC 0.022uF 50V
C290	1-163-038-00	s CERAMIC 0.1uF 25V
C291	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C292	1-163-033-00	s CERAMIC 0.022uF 50V

C293	1-162-718-11	s CERAMIC 220PF 1% 50V [for NTSC]
	1-162-714-11	s CERAMIC 150PF 1% 50V [for PAL]

C294	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C295	1-163-033-00	s CERAMIC 0.022uF 50V
C296	1-163-033-00	s CERAMIC 0.022uF 50V
C297	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C298	1-163-033-00	s CERAMIC 0.022uF 50V

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Ref. No. or Q'ty	Part No.	SP Description
C299	1-163-033-00 s	CERAMIC 0.022uF 50V
C300	1-163-033-00 s	CERAMIC 0.022uF 50V
C301	1-163-227-11 s	CERAMIC, CHIP 10PF 5% 50V
C302	1-164-004-11 s	CERAMIC, CHIP 0.1uF 10% 25V
C303	1-163-033-00 s	CERAMIC 0.022uF 50V
C304	1-163-033-00 s	CERAMIC 0.022uF 50V
C305	1-163-033-00 s	CERAMIC 0.022uF 50V
C306	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
C307-311	1-163-033-00 s	CERAMIC 0.022uF 50V
C312	1-164-004-11 s	CERAMIC, CHIP 0.1uF 10% 25V
C313	1-163-033-00 s	CERAMIC 0.022uF 50V
C314	1-164-004-11 s	CERAMIC, CHIP 0.1uF 10% 25V
C315	1-163-033-00 s	CERAMIC 0.022uF 50V
C317	1-163-033-00 s	CERAMIC 0.022uF 50V
C318	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
C319	1-163-033-00 s	CERAMIC 0.022uF 50V
C320	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
C321	1-163-033-00 s	CERAMIC 0.022uF 50V
C322	1-163-033-00 s	CERAMIC 0.022uF 50V
C323	1-164-232-11 s	CERAMIC, CHIP 0.01uF 10% 100V
C324	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
C325	1-163-033-00 s	CERAMIC 0.022uF 50V
C326	1-163-033-00 s	CERAMIC 0.022uF 50V
C327	1-164-004-11 s	CERAMIC, CHIP 0.1uF 10% 25V
C328	1-163-033-00 s	CERAMIC 0.022uF 50V
C329	1-163-033-00 s	CERAMIC 0.022uF 50V
C330	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
C331-340	1-163-033-00 s	CERAMIC 0.022uF 50V
C341	1-126-394-11 s	ELECT, CHIP 10uF 20% 16V
C342	1-104-608-11 s	ELECT, CHIP 33uF 20% 6.3V
C343	1-104-608-11 s	ELECT, CHIP 33uF 20% 6.3V
C344	1-104-608-11 s	ELECT, CHIP 33uF 20% 6.3V
C345	1-107-686-11 s	TANTALUM, CHIP 4.7uF 20% 16V
C347	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C348	1-163-038-00 s	CERAMIC 0.1uF 25V
C349	1-163-038-00 s	CERAMIC 0.1uF 25V
C350	1-109-894-11 s	ELECT 33uF 20% 10V
C360	1-162-710-11 s	CERAMIC 100PF 1% 50V
C500	1-127-516-11 s	ALUMIN SOLID 220uF 20% 10V
C501	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
C502-506	1-163-033-00 s	CERAMIC 0.022uF 50V
C507	1-163-038-00 s	CERAMIC 0.1uF 25V
C508	1-135-070-00 s	TANTALUM, CHIP 0.1uF 10% 35V
C509-513	1-163-033-00 s	CERAMIC 0.022uF 50V
C514	1-135-157-21 s	TANTALUM, CHIP 10uF 10% 6.3V
C515	1-163-033-00 s	CERAMIC 0.022uF 50V
C516	1-163-033-00 s	CERAMIC 0.022uF 50V
C517	1-163-275-11 s	CERAMIC, CHIP 0.001uF 5% 50V
C518	1-163-275-11 s	CERAMIC, CHIP 0.001uF 5% 50V
C519	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C520	1-163-092-00 s	CERAMIC 9PF 0.25PF 50V [for NTSC]
	1-163-089-00 s	CERAMIC, CHIP 6PF 50V [for PAL]
C521	1-104-541-11 s	FILM, CHIP 0.0015uF 5% 50V [for NTSC]
	1-164-695-11 s	CERAMIC 2200PF 5% 50V [for PAL]
C522	1-163-257-11 s	CERAMIC, CHIP 180PF 5% 50V
C523	1-163-220-11 s	CERAMIC, CHIP 3PF 50V

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Ref. No. or Q'ty	Part No.	SP Description
C524	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C525	1-135-210-11 s	TANTALUM, CHIP 4.7uF 20% 10V
C526	1-135-210-11 s	TANTALUM, CHIP 4.7uF 20% 10V
C527	1-135-091-00 s	TANTALUM, CHIP 1uF 20% 16V
C528-532	1-163-033-00 s	CERAMIC 0.022uF 50V
C534	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
C535	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C536	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
C537	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
C538	1-126-394-11 s	ELECT, CHIP 10uF 20% 16V
C539	1-163-033-00 s	CERAMIC 0.022uF 50V
C540	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
C541	1-163-033-00 s	CERAMIC 0.022uF 50V
C542	1-163-033-00 s	CERAMIC 0.022uF 50V
C700-704	1-163-033-00 s	CERAMIC 0.022uF 50V
C705	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
C706	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
C707	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
C708	1-126-396-11 s	ELECT, CHIP 47uF 20% 16V
C709	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
C710-714	1-163-033-00 s	CERAMIC 0.022uF 50V
C715	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
C716	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
C717	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
C718	1-126-396-11 s	ELECT, CHIP 47uF 20% 16V
C719	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
C720-724	1-163-033-00 s	CERAMIC 0.022uF 50V
C725	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
C726	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
C727	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
C728	1-126-396-11 s	ELECT, CHIP 47uF 20% 16V
C729	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
C730	1-163-033-00 s	CERAMIC 0.022uF 50V
C731	1-163-033-00 s	CERAMIC 0.022uF 50V
C732	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
C733	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
C740	1-124-234-00 s	ELECT 22uF 20% 16V
CN201	1-774-265-11 s	CONNECTOR, BOARD TO BOARD 30P
CN202	1-774-265-11 s	CONNECTOR, BOARD TO BOARD 30P
CN203	1-774-264-11 s	CONNECTOR, BOARD TO BOARD 26P
CN204	1-774-262-11 s	CONNECTOR, BOARD TO BOARD 18P
CN209	1-566-767-11 o	CONNECTOR 12P, MALE
CN210	1-566-763-11 o	CONNECTOR 8P, MAEL
CP200	1-760-277-11 s	VCO, CRYSTAL 28.63636000MHz [for NTSC]
	1-760-263-11 s	VCO, CRYSTAL 35.46895000MHz [for PAL]
D1	8-719-157-11 s	DIODE RD3.3M-B
D2	8-719-157-11 s	DIODE RD3.3M-B
D3	8-719-157-11 s	DIODE RD3.3M-B
D4	8-719-941-23 s	DIODE DA204U
D5	8-719-941-23 s	DIODE DA204U
D10	8-719-105-28 s	DIODE RD2.4M-B
D200	8-719-023-69 s	DIODE SB007T03Q
D201	8-719-023-69 s	DIODE SB007T03Q
D202	8-719-023-69 s	DIODE SB007T03Q
D203	8-719-157-11 s	DIODE RD3.3M-B

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Ref. No. or Q'ty	Part No.	SP Description	Ref. No. or Q'ty	Part No.	SP Description
D204	8-719-123-82	s DIODE 1SS303-T1	IC38	8-759-186-56	s IC TC74VHC174F
D205	8-719-023-69	s DIODE SB007T03Q [for PAL]	IC40	8-752-358-04	s IC CXD2310R
D206	8-719-123-82	s DIODE 1SS303-T1	IC41	8-752-360-44	s IC CXK1203AR
D207	8-719-941-23	s DIODE DA204U	IC42	8-759-186-56	s IC TC74VHC174F
D208	8-719-123-82	s DIODE 1SS303-T1 [for PAL]	IC43	8-759-186-56	s IC TC74VHC174F
D500	8-719-023-69	s DIODE SB007T03Q	IC44	8-759-998-98	s IC LM358D
D501	8-719-023-69	s DIODE SB007T03Q [for PAL]	IC45	8-759-998-98	s IC LM358D
D700	8-719-157-23	s DIODE RD4.7M-B	IC200	8-759-926-49	s IC SN74HC245NS
D701	8-719-157-36	s DIODE RD6.8M-B	IC201	8-759-186-63	s IC TC74VHC245F
D702	8-719-157-23	s DIODE RD4.7M-B	IC202	8-759-926-49	s IC SN74HC245NS
D703	8-719-157-36	s DIODE RD6.8M-B	IC203	8-759-097-51	s IC MSM6524GS-VKR2
D704	8-719-157-36	s DIODE RD6.8M-B	IC204	8-759-234-20	s IC TC7S08F
FB1	1-543-309-21	s BEAD, FERRITE	IC205	8-759-031-84	s IC TC7S04F
FB2	1-543-309-21	s BEAD, FERRITE	IC206	8-759-054-61	s IC CLC505AJE
FB3	1-543-309-21	s BEAD, FERRITE	IC207	8-759-014-29	s IC MC34184M
FB200	1-543-309-21	s BEAD, FERRITE	IC208	8-759-234-77	s IC TC4S66F
FB201	1-543-309-21	s BEAD, FERRITE	IC209	8-759-030-16	s IC MC34182M
FB202	1-543-309-21	s BEAD, FERRITE	IC210	8-759-030-16	s IC MC34182M
FL1	1-233-432-11	s FILTER, LOW-PASS	IC211	8-759-987-27	s IC LM1881M
FL2	1-233-432-11	s FILTER, LOW-PASS	IC212	8-759-185-90	s IC TC74VHC221AF(EL)
FL3	1-233-433-11	s FILTER, LOW-PASS	IC213	8-759-185-90	s IC TC74VHC221AF(EL)
FL200	1-239-069-11	s FILTER, LOW-PASS	IC214	8-759-186-39	s IC TC74VHC74F
FL500	1-239-931-11	s FILTER, LOW-PASS	IC215	8-759-186-43	s IC TC74VHC123AF
IC1	8-759-987-27	s IC LM1881M	IC216	8-759-035-93	s IC TC7S32F-TE85L
IC2	8-759-185-90	s IC TC74VHC221AF(EL)	IC217	8-759-185-90	s IC TC74VHC221AF(EL)
IC3	8-759-030-16	s IC MC34182M	IC218	8-759-300-71	s IC HD14053BFP
IC4	8-759-054-61	s IC CLC505AJE	IC219	8-759-030-16	s IC MC34182M
IC5	8-759-014-29	s IC MC34184M	IC220	8-759-054-61	s IC CLC505AJE
IC6	8-759-014-29	s IC MC34184M	IC221	8-752-052-77	s IC CXA1450M
IC7	8-759-014-29	s IC MC34184M	IC222	8-759-185-90	s IC TC74VHC221AF(EL)
IC8	8-759-234-77	s IC TC4S66F	IC223	8-759-098-16	s IC LT1227CS8-E2
IC9	8-759-234-77	s IC TC4S66F	IC224	8-759-702-08	s IC NJM360M
IC10	8-759-234-77	s IC TC4S66F	IC225	8-759-186-53	s IC TC74VHC163F
IC11	8-759-702-08	s IC NJM360M	IC226	8-759-186-43	s IC TC74VHC123AF
IC12	8-759-702-08	s IC NJM360M	IC227	8-759-030-61	s IC TL431CM
IC13	8-759-186-56	s IC TC74VHC174F	IC228	8-759-242-64	s IC TC4W53F
IC14	8-759-030-61	s IC TL431CM	IC229	8-759-998-98	s IC LM358D
IC15	8-759-998-98	s IC LM358D	IC230	8-759-186-53	s IC TC74VHC163F
IC16	8-759-081-42	s IC TC74VHC00F	IC231	8-759-233-66	s IC TC74HCT04AF
IC17	8-759-030-16	s IC MC34182M	IC232	8-752-358-04	s IC CXD2310R
IC18	8-752-358-04	s IC CXD2310R	IC233	8-759-030-16	s IC MC34182M
IC19	8-752-358-04	s IC CXD2310R	IC234	8-752-360-44	s IC CXK1203AR
IC21	8-759-186-53	s IC TC74VHC163F	IC235	8-759-702-08	s IC NJM360M
IC22	8-759-147-05	s IC UPD42101G-3	IC236	8-759-035-93	s IC TC7S32F-TE85L
IC23	8-759-147-05	s IC UPD42101G-3	IC237	8-759-186-39	s IC TC74VHC74F
IC24	8-759-147-05	s IC UPD42101G-3	IC238	8-752-375-22	s IC CXD304-106Q
IC25	8-759-031-84	s IC TC7S04F	IC239	8-759-081-42	s IC TC74VHC00F
IC26	8-759-175-27	s IC TC74VHC574F	IC240	8-759-175-92	s IC CXD8819AQ
IC27	8-759-175-27	s IC TC74VHC574F	IC241	8-759-014-29	s IC MC34184M
IC28	8-759-175-27	s IC TC74VHC574F	IC242	8-752-334-55	s IC CXD1175M
IC29	8-759-175-27	s IC TC74VHC574F	IC243	8-759-196-97	s IC TC7SH32FU-TE85R
IC30	8-759-940-45	s IC S-8054HN-CB	IC244	8-759-186-63	s IC TC74VHC245F
IC31	8-759-186-56	s IC TC74VHC174F	IC245	8-759-030-16	s IC MC34182M
IC32	8-759-186-56	s IC TC74VHC174F	IC246	8-759-186-63	s IC TC74VHC245F
IC33	8-759-174-16	s IC TC74VHC244F	IC247	8-759-186-63	s IC TC74VHC245F
IC34	8-759-710-88	s IC NJM431U	IC248	8-759-101-12	s IC UPC311G2
IC36	8-759-030-61	s IC TL431CM	IC249	8-759-940-45	s IC S-8054HN-CB
IC37	8-759-186-60	s IC TC74VHC240F	IC500	8-759-030-61	s IC TL431CM
			IC501	8-759-186-63	s IC TC74VHC245F

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Ref. No. or Q'ty	Part No.	SP Description
IC502	8-759-186-63	s IC TC74VHC245F
IC503	8-759-030-16	s IC MC34182M
IC504	8-752-356-44	s IC CXD2306Q
IC505	8-759-185-90	s IC TC74VHC221AF (EL)
IC506	8-759-054-61	s IC CLC505AJE
IC507	8-759-054-61	s IC CLC505AJE
IC508	8-759-030-16	s IC MC34182M
IC509	8-759-242-64	s IC TC4W53F
IC510	8-752-052-73	s IC CXA1451M
IC511	8-752-052-73	s IC CXA1451M
IC700	8-759-081-42	s IC TC74VHC00F
IC701	8-759-045-17	s IC NJM79L05UA
IC702	8-759-384-71	s IC TL750L08CLP
L2	1-412-192-11	s INDUCTOR 56uH [for NTSC]
	1-412-194-11	s INDUCTOR 82uH [for PAL]
L200	1-410-393-11	s INDUCTOR, CHIP 100uH
L201	1-410-393-11	s INDUCTOR, CHIP 100uH
L500	1-412-166-11	s INDUCTOR 0.18uH [for NTSC]
	1-412-164-11	s INDUCTOR 0.12uH [for PAL]
L501	1-412-143-11	s INDUCTOR 39uH
L502	1-408-783-00	s INDUCTOR, CHIP 33uH
L503	1-408-781-00	s INDUCTOR, CHIP 22uH
L504	1-408-781-00	s INDUCTOR, CHIP 22uH
L700	1-424-641-11	s COIL, CHOKE 22uH
L701	1-424-641-11	s COIL, CHOKE 22uH
L702	1-424-641-11	s COIL, CHOKE 22uH
L704	1-424-641-11	s COIL, CHOKE 22uH
Q1	8-729-028-91	s TRANSISTOR DTA144EUA-T106 [for NTSC]
Q2	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q3	8-729-209-06	s TRANSISTOR 2SC4213-A [for NTSC]
Q4	8-729-209-06	s TRANSISTOR 2SC4213-A [for NTSC]
Q5-9	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q10	8-729-117-32	s TRANSISTOR 2SC4177
Q11	8-729-117-32	s TRANSISTOR 2SC4177
Q12	8-729-117-32	s TRANSISTOR 2SC4177
Q13	8-729-143-07	s TRANSISTOR 2SA1610-YY33
Q14-19	8-729-117-32	s TRANSISTOR 2SC4177
Q20	8-729-143-07	s TRANSISTOR 2SA1610-YY33
Q21	8-729-117-32	s TRANSISTOR 2SC4177
Q22	8-729-117-32	s TRANSISTOR 2SC4177
Q23	8-729-117-32	s TRANSISTOR 2SC4177
Q24	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q26	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q27	8-729-117-32	s TRANSISTOR 2SC4177
Q28	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q29	8-729-117-32	s TRANSISTOR 2SC4177
Q30	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q200	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q201	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q202-206	8-729-117-32	s TRANSISTOR 2SC4177
Q207	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q208	8-729-117-32	s TRANSISTOR 2SC4177
Q209	8-729-117-32	s TRANSISTOR 2SC4177
Q210	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q211	8-729-143-07	s TRANSISTOR 2SA1610-YY33
Q212	8-729-143-07	s TRANSISTOR 2SA1610-YY33

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Ref. No. or Q'ty	Part No.	SP Description
Q213	8-729-118-56	s TRANSISTOR 2SK852-X2
Q214	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q215	8-729-904-41	s TRANSISTOR FMY3
Q216	8-729-117-32	s TRANSISTOR 2SC4177
Q217	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q500	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q501	8-729-117-32	s TRANSISTOR 2SC4177
Q502	8-729-907-46	s TRANSISTOR TMZ1
Q700	8-729-807-34	s TRANSISTOR 2SB1123-S
Q701	8-729-807-51	s TRANSISTOR 2SD1623-S
Q702	8-729-807-34	s TRANSISTOR 2SB1123-S
Q703	8-729-807-34	s TRANSISTOR 2SB1123-S
Q704	8-729-807-34	s TRANSISTOR 2SB1123-S
Q705	8-729-807-34	s TRANSISTOR 2SB1123-S
Q706	8-729-807-51	s TRANSISTOR 2SD1623-S
Q707	8-729-807-34	s TRANSISTOR 2SB1123-S
Q708	8-729-807-34	s TRANSISTOR 2SB1123-S
Q709	8-729-807-34	s TRANSISTOR 2SB1123-S
Q710	8-729-807-34	s TRANSISTOR 2SB1123-S
Q711	8-729-807-51	s TRANSISTOR 2SD1623-S
Q712	8-729-807-34	s TRANSISTOR 2SB1123-S
R1	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R2	1-216-089-00	s METAL, CHIP 47k 5% 1/10W
R3	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W
R4	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W
R5	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W
R6	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R7	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W [for NTSC]
R8	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W [for NTSC]
R9	1-208-771-11	s METAL, CHIP 360 0.5% 1/10W [for NTSC]
	1-216-295-00	s RES, CHIP 0 [for PAL]
R10	1-208-771-11	s METAL, CHIP 360 0.5% 1/10W [for NTSC]
	1-216-295-00	s RES, CHIP 0 [for PAL]
R11	1-216-081-00	s METAL, CHIP 22K 5% 1/10W [for NTSC]
R12	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R13	1-208-810-11	s METAL, CHIP 15K 0.5% 1/10W [for PAL]
R14	1-208-784-11	s METAL, CHIP 1.2K 0.5% 1/10W
R15	1-216-649-11	s METAL, CHIP 820 0.5% 1/10W
R16	1-216-650-11	s METAL, CHIP 910 0.5% 1/10W [for NTSC]
R17	1-216-650-11	s METAL, CHIP 910 0.5% 1/10W [for NTSC]
R18	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R19	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R20	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R21	1-216-049-11	s METAL, CHIP 1K 5% 1/10W
R22	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R23	1-208-774-11	s METAL, CHIP 470 0.5% 1/10W
R24	1-208-774-11	s METAL, CHIP 470 0.5% 1/10W
R29	1-216-631-11	s METAL, CHIP 150 0.5% 1/10W
R30	1-216-631-11	s METAL, CHIP 150 0.5% 1/10W

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Ref. No. or Q'ty	Part No.	SP Description
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R31	1-216-631-11	s METAL, CHIP 150 0.5% 1/10W
R32	1-216-049-11	s METAL, CHIP 1K 5% 1/10W
R33	1-216-661-11	s METAL, CHIP 2.7K 0.5% 1/10W
R34	1-216-631-11	s METAL, CHIP 150 0.5% 1/10W
R35	1-216-631-11	s METAL, CHIP 150 0.5% 1/10W
R36	1-216-631-11	s METAL, CHIP 150 0.5% 1/10W
R37	1-216-049-11	s METAL, CHIP 1K 5% 1/10W
R38	1-216-049-11	s METAL, CHIP 1K 5% 1/10W
R39	1-216-049-11	s METAL, CHIP 1K 5% 1/10W
R40	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R41	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W [for NTSC]
	1-216-295-00	s RES, CHIP 0 [for PAL]
R42	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W [for NTSC]
	1-216-295-00	s RES, CHIP 0 [for PAL]
R43	1-216-631-11	s METAL, CHIP 150 0.5% 1/10W
R44	1-216-635-11	s METAL, CHIP 220 0.5% 1/10W
R45	1-216-635-11	s METAL, CHIP 220 0.5% 1/10W
R46	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R47	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R48	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R49	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W
R50	1-216-635-11	s METAL, CHIP 220 0.5% 1/10W
R51	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W
R52	1-216-635-11	s METAL, CHIP 220 0.5% 1/10W
R53	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W
R54	1-216-635-11	s METAL, CHIP 220 0.5% 1/10W
R55	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R56	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R57	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R58	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R59	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R60	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R61	1-216-133-00	s METAL, CHIP 3.3M 5% 1/10W
R63	1-216-133-00	s METAL, CHIP 3.3M 5% 1/10W
R64	1-216-049-11	s METAL, CHIP 1K 5% 1/10W
R65	1-216-049-11	s METAL, CHIP 1K 5% 1/10W
R66	1-216-049-11	s METAL, CHIP 1K 5% 1/10W
R67	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R68	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R69	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R70	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R71	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R72	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R73	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R74	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R75	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R76	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R77	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R78	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R79	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R80	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R81	1-216-661-11	s METAL, CHIP 2.7K 0.5% 1/10W
R82	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R83	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W
R84	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W
R85	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W

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Ref. No. or Q'ty	Part No.	SP Description
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R86	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R87	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R88	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R89	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R90	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R91	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R92	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R93	1-208-774-11	s METAL, CHIP 470 0.5% 1/10W
R94	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R95	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R96	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R97	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R98	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R99	1-208-800-11	s METAL, CHIP 5.6K 0.5% 1/10W
R100	1-208-800-11	s METAL, CHIP 5.6K 0.5% 1/10W
R101	1-208-803-11	s METAL, CHIP 7.5K 0.5% 1/10W
R102	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W
R103	1-208-774-11	s METAL, CHIP 470 0.5% 1/10W
R104	1-218-766-11	s METAL, CHIP 390K 0.5% 1/10W
R105	1-216-696-11	s METAL, CHIP 75K 0.5% 1/10W
R106	1-216-687-11	s METAL, CHIP 33K 0.5% 1/10W
R107	1-216-696-11	s METAL, CHIP 75K 0.5% 1/10W
R108	1-218-766-11	s METAL, CHIP 390K 0.5% 1/10W
R111	1-216-295-00	s RES, CHIP 0
R116	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R117	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R118	1-216-685-11	s METAL, CHIP 27K 0.5% 1/10W
R121	1-216-295-00	s RES, CHIP 0
R126	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R127	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R128-132	1-208-774-11	s METAL, CHIP 470 0.5% 1/10W
R133	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W
R134	1-216-627-11	s METAL, CHIP 100 0.5% 1/10W
R135	1-216-627-11	s METAL, CHIP 100 0.5% 1/10W
R136	1-208-774-11	s METAL, CHIP 470 0.5% 1/10W
R137	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W
R138	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R140	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R141	1-216-295-00	s RES, CHIP 0
R142	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R144	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R146	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R147	1-208-803-11	s METAL, CHIP 7.5K 0.5% 1/10W
R148	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W
R149	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W
R150	1-208-774-11	s METAL, CHIP 470 0.5% 1/10W
R152	1-218-766-11	s METAL, CHIP 390K 0.5% 1/10W
R153	1-216-619-11	s METAL, CHIP 47 0.5% 1/10W
R154	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W
R155	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W
R156	1-216-696-11	s METAL, CHIP 75K 0.5% 1/10W
R157	1-216-687-11	s METAL, CHIP 33K 0.5% 1/10W
R158	1-216-685-11	s METAL, CHIP 27K 0.5% 1/10W
R159	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R160	1-208-784-11	s METAL, CHIP 1.2K 0.5% 1/10W
R161	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R162	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R163	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R164	1-216-073-00	s METAL, CHIP 10K 5% 1/10W

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Ref. No.  
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R165 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R167 1-216-295-00 s RES, CHIP 0  
 R168 1-216-295-00 s RES, CHIP 0  
 R170-189 1-216-025-00 s METAL, CHIP 100 5% 1/10W  
 R190 1-216-033-00 s METAL, CHIP 220 5% 1/10W

R191 1-216-033-00 s METAL, CHIP 220 5% 1/10W  
 R193 1-216-033-00 s METAL, CHIP 220 5% 1/10W  
 R195 1-216-033-00 s METAL, CHIP 220 5% 1/10W  
 R196 1-216-033-00 s METAL, CHIP 220 5% 1/10W  
 R198 1-216-033-00 s METAL, CHIP 220 5% 1/10W

R200 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
 R201 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
 R202 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
 R203 1-216-033-00 s METAL, CHIP 220 5% 1/10W  
 R204 1-216-089-00 s METAL, CHIP 47k 5% 1/10W

R205 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R206 1-216-097-00 s METAL, CHIP 100K 5% 1/10W  
 R207 1-216-097-00 s METAL, CHIP 100K 5% 1/10W  
 R208 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
 R209 1-216-089-00 s METAL, CHIP 47k 5% 1/10W

R210 1-216-049-11 s METAL, CHIP 1K 5% 1/10W  
 R211 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
 R212 1-216-049-11 s METAL, CHIP 1K 5% 1/10W  
 R213 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R214 1-216-049-11 s METAL, CHIP 1K 5% 1/10W

R215 1-216-097-00 s METAL, CHIP 100K 5% 1/10W  
 R216 1-216-619-11 s METAL, CHIP 47 0.5% 1/10W  
 R217 1-216-049-11 s METAL, CHIP 1K 5% 1/10W  
 R218 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W  
 R219 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W

R220 1-216-033-00 s METAL, CHIP 220 5% 1/10W  
 R221 1-216-033-00 s METAL, CHIP 220 5% 1/10W  
 R222 1-216-049-11 s METAL, CHIP 1K 5% 1/10W  
 R223 1-216-635-11 s METAL, CHIP 220 0.5% 1/10W  
 R224 1-216-647-11 s METAL, CHIP 680 0.5% 1/10W

R225 1-216-049-11 s METAL, CHIP 1K 5% 1/10W  
 R226 1-216-033-00 s METAL, CHIP 220 5% 1/10W  
 R227 1-216-097-00 s METAL, CHIP 100K 5% 1/10W  
 R229 1-218-763-11 s METAL, CHIP 300K 0.5% 1/10W  
 R230 1-216-049-11 s METAL, CHIP 1K 5% 1/10W

R231 1-208-774-11 s METAL, CHIP 470 0.5% 1/10W  
 R232 1-216-647-11 s METAL, CHIP 680 0.5% 1/10W  
 R233 1-216-009-00 s METAL, CHIP 22 5% 1/10W  
 R234 1-208-774-11 s METAL, CHIP 470 0.5% 1/10W  
 R235 1-216-049-11 s METAL, CHIP 1K 5% 1/10W

R236 1-216-614-11 s METAL, CHIP 30 0.50% 1/10W  
 R237 1-216-633-11 s METAL, CHIP 180 0.5% 1/10W  
 R238 1-216-649-11 s METAL, CHIP 820 0.5% 1/10W  
 R239 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W  
 R240 1-208-784-11 s METAL, CHIP 1.2K 0.5% 1/10W

R241 1-216-635-11 s METAL, CHIP 220 0.5% 1/10W  
 R242 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W  
 R243 1-216-025-00 s METAL, CHIP 100 5% 1/10W  
 R244 1-216-049-11 s METAL, CHIP 1K 5% 1/10W  
 R245 1-216-049-11 s METAL, CHIP 1K 5% 1/10W

R246 1-216-663-11 s METAL, CHIP 3.3K 0.5% 1/10W  
 R247 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R248 1-216-041-00 s METAL, CHIP 470 5% 1/10W  
 R249 1-216-121-00 s METAL, CHIP 1M 5% 1/10W

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Ref. No.  
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R250 1-208-806-11 s METAL, CHIP 10K 0.5% 1/10W  
 R251 1-216-041-00 s METAL, CHIP 470 5% 1/10W  
 R252 1-216-017-00 s METAL, CHIP 47 5% 1/10W  
 R253 1-216-081-00 s METAL, CHIP 22K 5% 1/10W  
 R254 1-218-763-11 s METAL, CHIP 300K 0.5% 1/10W

R255 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W  
 R256 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R257 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W  
 R258 1-216-049-11 s METAL, CHIP 1K 5% 1/10W  
 R259 1-216-646-11 s METAL, CHIP 620 0.5% 1/10W

R260 1-216-017-00 s METAL, CHIP 47 5% 1/10W  
 R261 1-216-649-11 s METAL, CHIP 820 0.5% 1/10W  
 R262 1-216-049-11 s METAL, CHIP 1K 5% 1/10W  
 R263 1-216-117-00 s METAL, CHIP 680K 5% 1/10W  
 R264 1-208-801-11 s METAL, CHIP 6.2K 0.5% 1/10W

R265 1-216-049-11 s METAL, CHIP 1K 5% 1/10W  
 R266 1-208-822-11 s METAL, CHIP 47K 0.5% 1/10W  
 R267 1-216-295-00 s RES, CHIP 0  
 R268 1-216-652-11 s METAL, CHIP 1.1K 0.5% 1/10W  
 R269 1-216-656-11 s METAL, CHIP 1.6K 0.5% 1/10W

R270 1-216-661-11 s METAL, CHIP 2.7K 0.5% 1/10W  
 R271 1-216-684-11 s METAL, CHIP 24K 0.5% 1/10W  
 R272 1-216-661-11 s METAL, CHIP 2.7K 0.5% 1/10W  
 R273 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W  
 R274 1-216-025-00 s METAL, CHIP 100 5% 1/10W

R275 1-216-049-11 s METAL, CHIP 1K 5% 1/10W  
 R276 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W  
 R277 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R278 1-216-690-11 s METAL, CHIP 43K 0.5% 1/10W  
 R279 1-208-812-11 s METAL, CHIP 18K 0.5% 1/10W

R280 1-216-133-00 s METAL, CHIP 3.3M 5% 1/10W  
 R281 1-208-799-11 s METAL, CHIP 5.1K 0.5% 1/10W  
 R282 1-216-673-11 s METAL, CHIP 8.2K 0.5% 1/10W  
 [for NTSC]  
 1-208-806-11 s METAL, CHIP 10K 0.5% 1/10W  
 [for PAL]

R284 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W  
 R285 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R286 1-216-073-00 s METAL, CHIP 10K 5% 1/10W  
 R287 1-216-661-11 s METAL, CHIP 2.7K 0.5% 1/10W  
 R288 1-216-121-00 s METAL, CHIP 1M 5% 1/10W

R289 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W  
 R290 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W  
 R291 1-216-079-00 s METAL, CHIP 18K 5% 1/10W  
 R292 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W  
 R293 1-216-624-11 s METAL, CHIP 75 0.5% 1/10W

R294 1-216-097-00 s METAL, CHIP 100K 5% 1/10W  
 R297 1-216-295-00 s RES, CHIP 0  
 R299 1-216-295-00 s RES, CHIP 0  
 R300 1-216-097-00 s METAL, CHIP 100K 5% 1/10W  
 [for NTSC]

R301 1-216-295-00 s RES, CHIP 0 [for PAL]  
 R302 1-216-017-00 s METAL, CHIP 47 5% 1/10W  
 R303 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W  
 R304 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W  
 R305 1-218-766-11 s METAL, CHIP 390K 0.5% 1/10W

R306 1-208-803-11 s METAL, CHIP 7.5K 0.5% 1/10W  
 R307 1-208-806-11 s METAL, CHIP 10K 0.5% 1/10W  
 R308 1-216-041-00 s METAL, CHIP 470 5% 1/10W

(VPR-12/12P BOARD)

(VPR-12/12P BOARD)

Ref. No. or Q'ty	Part No.	SP Description	Ref. No. or Q'ty	Part No.	SP Description
R309	1-216-097-00	s METAL, CHIP 100K 5% 1/10W [for NTSC]	R364	1-216-049-11	s METAL, CHIP 1K 5% 1/10W
R310	1-216-295-00	s RES, CHIP 0 [for PAL]	R365	1-216-295-00	s RES, CHIP 0
R311	1-216-696-11	s METAL, CHIP 75K 0.5% 1/10W	R366	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R313	1-216-295-00	s RES, CHIP 0	R367	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R315	1-216-295-00	s RES, CHIP 0	R368	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R316	1-216-097-00	s METAL, CHIP 100K 5% 1/10W	R369	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R318	1-216-687-11	s METAL, CHIP 33K 0.5% 1/10W	R370	1-216-045-00	s METAL, CHIP 680 5% 1/10W
R319	1-216-685-11	s METAL, CHIP 27K 0.5% 1/10W	R371	1-216-049-11	s METAL, CHIP 1K 5% 1/10W
R320	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W	R372	1-216-049-11	s METAL, CHIP 1K 5% 1/10W
R321	1-216-049-11	s METAL, CHIP 1K 5% 1/10W	R373	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W
R322	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W	R374	1-216-687-11	s METAL, CHIP 33K 0.5% 1/10W
R323	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W	R375	1-216-029-00	s METAL, CHIP 150 5% 1/10W
R324	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W	R376	1-216-029-00	s METAL, CHIP 150 5% 1/10W
R325	1-216-673-11	s METAL, CHIP 8.2K 0.5% 1/10W	R377	1-216-089-00	s METAL, CHIP 47k 5% 1/10W
R326	1-216-025-00	s METAL, CHIP 100 5% 1/10W	R378	1-216-029-00	s METAL, CHIP 150 5% 1/10W
R327	1-216-073-00	s METAL, CHIP 10K 5% 1/10W	R379	1-216-029-00	s METAL, CHIP 150 5% 1/10W
R328	1-216-073-00	s METAL, CHIP 10K 5% 1/10W	R380	1-216-089-00	s METAL, CHIP 47k 5% 1/10W
R329	1-216-073-00	s METAL, CHIP 10K 5% 1/10W	R381	1-216-688-11	s METAL, CHIP 36K 0.5% 1/10W
R330	1-216-073-00	s METAL, CHIP 10K 5% 1/10W	R382	1-208-810-11	s METAL, CHIP 15K 0.5% 1/10W
R331	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W	R397-411	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R332	1-216-033-00	s METAL, CHIP 220 5% 1/10W	R412	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R333	1-216-295-00	s RES, CHIP 0 [for NTSC]	R414	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R334	1-216-295-00	s RES, CHIP 0 [for PAL]	R415	1-216-049-11	s METAL, CHIP 1K 5% 1/10W
R337	1-216-033-00	s METAL, CHIP 220 5% 1/10W	R417-421	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R338	1-216-045-00	s METAL, CHIP 680 5% 1/10W	R422	1-218-763-11	s METAL, CHIP 300K 0.5% 1/10W
R339	1-208-801-11	s METAL, CHIP 6.2K 0.5% 1/10W [for NTSC]	R423	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
	1-208-800-11	s METAL, CHIP 5.6K 0.5% 1/10W [for PAL]	R424	1-216-049-11	s METAL, CHIP 1K 5% 1/10W
R340	1-208-801-11	s METAL, CHIP 6.2K 0.5% 1/10W	R425	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R341	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W [for NTSC]	R426	1-216-025-00	s METAL, CHIP 100 5% 1/10W
	1-216-657-11	s METAL, CHIP 1.8K 0.5% 1/10W [for PAL]	R427	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R342	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W	R428	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R343	1-216-097-00	s METAL, CHIP 100K 5% 1/10W	R429	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R345	1-208-801-11	s METAL, CHIP 6.2K 0.5% 1/10W	R430	1-216-089-00	s METAL, CHIP 47k 5% 1/10W
R346	1-216-073-00	s METAL, CHIP 10K 5% 1/10W	R431	1-215-417-00	s METAL 680 1% 1/6W
R347	1-216-029-00	s METAL, CHIP 150 5% 1/10W	R432	1-215-445-00	s METAL 10K 1% 1/6W
R348	1-216-295-00	s RES, CHIP 0	R434	1-215-421-00	s METAL 1K 1% 1/6W
R349	1-208-774-11	s METAL, CHIP 470 0.5% 1/10W	R435	1-215-421-00	s METAL 1K 1% 1/6W
R350	1-208-774-11	s METAL, CHIP 470 0.5% 1/10W	R500	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R352	1-216-097-00	s METAL, CHIP 100K 5% 1/10W	R501	1-216-661-11	s METAL, CHIP 2.7K 0.5% 1/10W
R353	1-216-049-11	s METAL, CHIP 1K 5% 1/10W	R502	1-216-661-11	s METAL, CHIP 2.7K 0.5% 1/10W
R354	1-216-687-11	s METAL, CHIP 33K 0.5% 1/10W	R503	1-218-772-11	s METAL 680K 0.5% 1/10W
R355	1-216-674-11	s METAL, CHIP 9.1K 0.5% 1/10W	R516	1-218-764-11	s METAL, CHIP 330K 0.5% 1/10W
R357	1-216-129-00	s METAL, CHIP 2.2M 5% 1/10W [for PAL]	R517	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R358	1-216-077-00	s METAL, CHIP 15K 5% 1/10W	R518	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R351	1-216-295-00	s RES, CHIP 0	R519	1-216-627-11	s METAL, CHIP 100 0.5% 1/10W
R356	1-208-814-11	s METAL, CHIP 22K 0.5% 1/10W	R520	1-216-049-11	s METAL, CHIP 1K 5% 1/10W
R359	1-216-049-11	s METAL, CHIP 1K 5% 1/10W	R521	1-208-801-11	s METAL, CHIP 6.2K 0.5% 1/10W
R360	1-216-073-00	s METAL, CHIP 10K 5% 1/10W	R522	1-216-666-11	s METAL, CHIP 4.3K 0.5% 1/10W
R361	1-216-073-00	s METAL, CHIP 10K 5% 1/10W	R523	1-216-637-11	s METAL, CHIP 270 0.5% 1/10W
R362	1-216-073-00	s METAL, CHIP 10K 5% 1/10W	R524	1-216-295-00	s RES, CHIP 0
R363	1-216-073-00	s METAL, CHIP 10K 5% 1/10W [for NTSC]	R526	1-216-657-11	s METAL, CHIP 1.8K 0.5% 1/10W [for PAL]
	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W [for PAL]	R529	1-208-784-11	s METAL, CHIP 1.2K 0.5% 1/10W
			R527	1-208-789-11	s METAL, CHIP 2K 0.5% 1/10W
			R528	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
			R530	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
			R531	1-216-649-11	s METAL, CHIP 820 0.5% 1/10W
			R532	1-208-785-11	s METAL, CHIP 1.3K 0.5% 1/10W

(VPR-12/12P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R533	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R534	1-216-631-11	s METAL, CHIP 150 0.5% 1/10W
R535	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R536	1-216-631-11	s METAL, CHIP 150 0.5% 1/10W
R537	1-216-609-11	s METAL, CHIP 18 0.5% 1/10W [for NTSC]
	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W [for PAL]
R538	1-216-625-11	s METAL, CHIP 82 0.5% 1/10W [for NTSC]
	1-216-613-11	s METAL, CHIP 27 0.5% 1/10W [for PAL]
R539	1-216-656-11	s METAL, CHIP 1.6K 0.5% 1/10W [for NTSC]
	1-216-661-11	s METAL, CHIP 2.7K 0.5% 1/10W [for PAL]
R540	1-216-631-11	s METAL, CHIP 150 0.5% 1/10W
R541	1-216-631-11	s METAL, CHIP 150 0.5% 1/10W
R542	1-216-689-11	s METAL, CHIP 39K 0.5% 1/10W [for PAL]
R543	1-208-784-11	s METAL, CHIP 1.2K 0.5% 1/10W
R544	1-208-784-11	s METAL, CHIP 1.2K 0.5% 1/10W
R545	1-218-763-11	s METAL, CHIP 300K 0.5% 1/10W
R546	1-216-619-11	s METAL, CHIP 47 0.5% 1/10W
R547	1-216-133-00	s METAL, CHIP 3.3M 5% 1/10W
R548	1-216-069-00	s METAL, CHIP 6.8K 5% 1/10W
R549	1-216-049-11	s METAL, CHIP 1K 5% 1/10W
R550	1-216-049-11	s METAL, CHIP 1K 5% 1/10W
R551	1-208-784-11	s METAL, CHIP 1.2K 0.5% 1/10W
R552	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W
R553	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R554	1-216-295-00	s RES, CHIP 0
R555	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R556	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R557	1-208-774-11	s METAL, CHIP 470 0.5% 1/10W
R558	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R559	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R560	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R561	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R562	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R563	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R565	1-216-646-11	s METAL, CHIP 620 0.5% 1/10W
R566	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R567	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R568	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R569	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R570	1-216-646-11	s METAL, CHIP 620 0.5% 1/10W
R700-704	1-216-089-00	s METAL, CHIP 47k 5% 1/10W
R705	1-208-822-11	s METAL, CHIP 47K 0.5% 1/10W
R706	1-216-089-00	s METAL, CHIP 47k 5% 1/10W
R707	1-216-049-11	s METAL, CHIP 1K 5% 1/10W
R708	1-216-049-11	s METAL, CHIP 1K 5% 1/10W
R709	1-216-043-00	s METAL, CHIP 560 5% 1/10W
R710	1-216-043-00	s METAL, CHIP 560 5% 1/10W
R711	1-216-043-00	s METAL, CHIP 560 5% 1/10W
R712	1-216-043-00	s METAL, CHIP 560 5% 1/10W
R713	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R714	1-216-043-00	s METAL, CHIP 560 5% 1/10W
R715	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R716	1-216-049-11	s METAL, CHIP 1K 5% 1/10W

(VPR-12/12P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R717	1-216-049-11	s METAL, CHIP 1K 5% 1/10W
R718	1-216-043-00	s METAL, CHIP 560 5% 1/10W
R719	1-216-043-00	s METAL, CHIP 560 5% 1/10W
R720	1-216-043-00	s METAL, CHIP 560 5% 1/10W
R721	1-216-043-00	s METAL, CHIP 560 5% 1/10W
R722	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R723	1-216-043-00	s METAL, CHIP 560 5% 1/10W
R724	1-216-049-11	s METAL, CHIP 1K 5% 1/10W
R725	1-216-049-11	s METAL, CHIP 1K 5% 1/10W
R726	1-216-043-00	s METAL, CHIP 560 5% 1/10W
R727	1-216-043-00	s METAL, CHIP 560 5% 1/10W
R728	1-216-043-00	s METAL, CHIP 560 5% 1/10W
R729	1-216-043-00	s METAL, CHIP 560 5% 1/10W
R730	1-216-049-11	s METAL, CHIP 1K 5% 1/10W
R731	1-216-049-11	s METAL, CHIP 1K 5% 1/10W
R732	1-216-049-11	s METAL, CHIP 1K 5% 1/10W
R733	1-216-295-00	s RES, CHIP 0
RV200	1-237-032-11	s RES, ADJ METAL 500
RV201	1-237-037-11	s RES, ADJ METAL 20K
RV202	1-237-036-11	s RES, ADJ METAL 10K
RV500	1-237-031-11	s RES, ADJ METAL 200

## 5-4. Frame List

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VR-194 BOARD

Ref. No.  
or Q'ty Part No. SP Description

1pc	1-657-808-11 o PRINTED CIRCUIT BOARD, VR-194
CN1	1-566-758-11 o CONNECTOR 3P, MALE
CN2	1-566-758-11 o CONNECTOR 3P, MALE
CN3	1-566-758-11 o CONNECTOR 3P, MALE
CN4	1-566-758-11 o CONNECTOR 3P, MALE
CN58	1-569-762-11 s CONNECTOR, BOARD TO BOATD 20P
R1	1-208-803-11 s METAL, CHIP 7.5K 0.5% 1/10W
R2	1-216-661-11 s METAL, CHIP 2.7K 0.5% 1/10W
R3	1-216-687-11 s METAL, CHIP 33K 0.5% 1/10W
R4	1-216-295-00 s RES, CHIP 0
R5	1-208-803-11 s METAL, CHIP 7.5K 0.5% 1/10W
R6	1-216-661-11 s METAL, CHIP 2.7K 0.5% 1/10W
R7	1-216-687-11 s METAL, CHIP 33K 0.5% 1/10W
R8	1-216-295-00 s RES, CHIP 0
R9	1-208-803-11 s METAL, CHIP 7.5K 0.5% 1/10W
R10	1-216-661-11 s METAL, CHIP 2.7K 0.5% 1/10W
R11	1-216-687-11 s METAL, CHIP 33K 0.5% 1/10W
R12	1-216-295-00 s RES, CHIP 0
R13	1-208-803-11 s METAL, CHIP 7.5K 0.5% 1/10W
R14	1-216-661-11 s METAL, CHIP 2.7K 0.5% 1/10W
R15	1-216-687-11 s METAL, CHIP 33K 0.5% 1/10W
R16	1-216-295-00 s RES, CHIP 0
SW1	1-570-863-11 s SWITCH, SLIDE
SW2	1-570-863-11 s SWITCH, SLIDE
SW3	1-570-863-11 s SWITCH, SLIDE
SW4	1-570-863-11 s SWITCH, SLIDE

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VR-205 BOARD

Ref. No.  
or Q'ty Part No. SP Description

6pcs	1-565-977-11 s CONTACT, FEMALE AWG28-32
1pc	1-565-978-11 o HOUSING, 6P
1pc	1-657-814-11 o PRINTED CIRCUIT BOARD, VR-205
RV1	1-241-577-11 s RES, VAR CARBON 20k/20k

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VR-206 BOARD

Ref. No.  
or Q'ty Part No. SP Description

3pcs	1-565-977-11 s CONTACT, FEMALE AWG28-32
1pc	1-569-618-11 o HOUSING, 3P
1pc	1-657-809-11 o PRINTED CIRCUIT BOARD, VR-206
1pc	1-955-097-11 o HARNESS, VR-VR
RV1	1-237-790-11 s RES, VAR CARBON 10K

Ref. No.  
or Q'ty Part No. SP Description

2pcs	1-454-334-61 s SOLENOID
1pc	1-454-383-31 s SOLENOID
1pc	1-454-607-21 s SOLENOID
1pc	1-507-743-21 s JACK, MINI STEREO
1pc	1-507-863-51 s JACK, PHONE
1pc	1-532-525-31 s BREAKER, CIRCUIT 6.3A 125V
5pcs	1-561-336-00 s CONNECTOR, BNC, FEMALE
1pc	1-698-335-11 s MOTOR, DC SVD-1489
2pcs	1-774-157-11 s CONVERTER, COAXIAL CONNECTOR
1pc	1-775-781-11 s CABLE, COAXIAL 220mm
1pc	1-775-781-21 s CABLE, COAXIAL 220mm
1pc	1-775-782-11 s CABLE, COAXIAL 240mm
1pc	1-801-022-11 s DISPLAY MODULE, LIQUID CRYSTEL
1pc	1-810-573-11 s SENSOR, DEW CONDENSATION
1pc	1-825-770-73 s HEAD, EF291-21
1pc	1-825-779-71 s CTL HEAD, PS244-21D
1pc	1-825-920-01 s HEAD, AUIDO EPS244-2103J
1pc	1-835-440-01 s MOTOR DN20-Q7Z1B
2pcs	1-835-441-01 s MOTOR R432276751A
1pc	1-835-534-01 s MOTOR, DC SCV-0702A/J-N
HARNESS (ADA-CP409)	
(CN552/ADA-44 board to CN409/CP-260 board)	
1pc	1-955-101-11 o HARNESS, ADA-CP409
CN552	1-573-183-11 o HOUSING, 13P
	12pcs 1-565-977-11 s CONTACT, FEMALE AWG28-32
CN409	1-573-183-11 o HOUSING, 13P
	12pcs 1-565-977-11 s CONTACT, FEMALE AWG28-32
HARNESS (ADA-CP410)	
(CN551/ADA-44 board to CN410/CP-260 board)	
1pc	1-955-100-11 o HARNESS, ADA-CP410
CN551(12pcs)	1-565-977-11 s CONTACT, FEMALE AWG28-32
CN410(12pcs)	1-565-977-11 s CONTACT, FEMALE AWG28-32

HARNESS (ADA-CP411)  
(CN553/ADA-44 board to CN411/CP-260 board)

1pc 1-955-113-11 o HARNESS, ADA-CP411

HARNESS (AIF136-MB36)  
(CN401/CP-260 board to CN921/MB-601 board)

1pc 1-953-430-11 o HARNESS, AIF136-MB36

HARNESS (BATT-CON)  
(CN1/BATTERY CONNECTOR to CN915 and CN932/MB-601 board  
and CN442/FU-63 board)

1pc	1-955-096-12 o HARNESS, BATT-CON
CN1	1-766-377-12 s CONNECTOR, BATTERY
CN915	1-569-617-11 o HOUSING, 2P
1pc	1-565-977-11 s CONTACT, FEMALE AWG28-32
CN932	1-535-893-11 o TAB, FASTON
CN442	1-535-893-11 o TAB, FASTON

HARNESS (BP-90)  
(BP-90 BATTERY CONNECTOR to MB-601 board)

BATTERY 1-507-905-11 s JACK, DC

HARNESS (BREAKER-FU)  
(CIRCUIT BREAKER to W2/FU-63 board)

(EXT DC IN connector to W1/FU-63 board)

HARNESS (BREAKER-PSW)  
(CIRCUIT BREAKER to CN602/PSW-31 board)

CN602 1-535-893-11 o TAB, FASTON

## (FRAME)

Ref. No.  
or Q'ty Part No. SP Description

## HARNESS (CAM-CON)

(CN1011/CAMERA connector to CN444/FU-63 board,  
CN453/CC-66 board, CN109/SST-3 board, CN402/CP-260 board  
and CN252/DIF-31 board)  
1pc 1-955-118-11 o HARNESS, CAM-CON  
CN1011 1-562-245-11 o CONNECTOR, CAMERA 26P, FEMALE  
CN444 1-569-197-11 o HOUSING, 4P  
4pcs 1-569-191-11 o CONTACT, FEMALE AWG22-26  
CN453 1-569-521-11 o HOUSING, 11P  
10pcs 1-565-977-11 s CONTACT, FEMALE AWG28-32  
CN109 1-565-978-11 o HOUSING, 6P  
6pcs 1-565-977-11 s CONTACT, FEMALE AWG28-32  
CN402 1-569-620-11 o HOUSING, 5P  
1pc 1-565-977-11 s CONTACT, FEMALE AWG28-32  
3pcs 1-766-387-11 o CONTACT, FEMALE AWG28-26

## HARNESS (CAP-HN14)

(CN107/SST-3 board to CN1/CAPSTEN MOTOR)  
1pc 1-953-435-11 o HARNESS, CAP-HN14

## HARNESS (CC-CP)

(CN454/CC-66 board to CN413/CP-260 board)  
1pc 1-955-099-11 o HARNESS, CC-CP  
CN454 1-569-618-11 o HOUSING, 3P  
2pcs 1-565-977-11 s CONTACT, FEMALE AWG28-32  
CN413 1-569-618-11 o HOUSING, 3P  
2pcs 1-565-977-11 s CONTACT, FEMALE AWG28-32

## HARNESS (CP-VR205)

(CN407/CP-260 board to CN1/VR-205 board)  
CN407 1-565-978-11 o HOUSING, 6P  
6pcs 1-565-977-11 s CONTACT, FEMALE AWG28-32

## HARNESS (CP09-DUS)

(CN421/CP-260 board to CN1/DUS-339 board)  
CN421 1-569-618-11 o HOUSING, 3P  
3pcs 1-565-977-11 s CONTACT, FEMALE AWG28-32  
CN1 1-569-618-11 o HOUSING, 3P  
3pcs 1-565-977-11 s CONTACT, FEMALE AWG28-32

## HARNESS (CS25-26)

(CN1/CS-25 board to CN2/CS-26 board)  
1pc 1-948-401-12 s HARNESS, CS25-26  
CN1 1-569-196-11 o HOUSING, 3P  
3pcs 1-569-193-11 o CONTACT, FEMALE  
CN2 1-569-196-11 o HOUSING, 3P  
3pcs 1-569-193-11 o CONTACT, FEMALE

## (HARNESS (DC-OUT))

(CN1013/EXT DC OUT connector to CN930/MB-601 board)  
CN1013 1-565-072-11 s CONNECTOR, CIRCULAR 4P, FEMALE  
CN930 1-569-618-11 o HOUSING, 3P  
2pcs 1-565-977-11 s CONTACT, FEMALE AWG28-32

## HARNESS (DPR-ADA56)

(CN207/DPR-62 board to CN556/ADA-44 board)  
1pc 1-955-111-11 o HARNESS, DPR-ADA56

## HARNESS (DPR-ADA59)

(CN208/DPR-62 board to CN559/ADA-44 board)  
1pc 1-955-112-11 o HARNESS, DPR-ADA59

## HARNESS (EQ-AH)

(CN304/EQ-54 board to CUE HEAD/AH-52 board)  
1pc 1-955-119-12 o HARNESS, EQ-AH  
CN304 1-569-196-31 o HOUSING, 3P  
2pcs 1-569-193-11 o CONTACT, FEMALE

## (FRAME)

Ref. No.  
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## HARNESS (EQ-DR)

(CN301 and CN303/EQ-54 board to CN2/DR-239 board)  
1pc 1-955-117-11 o HARNESS, EQ-DR  
CN301 1-569-199-11 o HOUSING, 6P  
2pcs 1-569-191-11 o CONTACT, FEMALE AWG22-26  
4pcs 1-569-193-11 o CONTACT, FEMALE  
CN303 1-569-199-41 o HOUSING, 6P  
2pcs 1-569-191-11 o CONTACT, FEMALE AWG22-26  
4pcs 1-569-193-11 o CONTACT, FEMALE  
CN2 1-580-582-11 o HOUSING, 12P  
4pcs 1-573-176-11 o CONTACT, LY, FEMALE AWG22-26  
8pcs 1-580-599-11 o TERMINAL, SOLDERLESS

## HARNESS (EXT DC GND)

(EXT DC IN connector to CN931/MB-601 board)

## HARNESS (FU-CP)

(CN445/FU-63 board to CN2/DC-85 board)  
(CN408/CP-260 board to CN1/DC-85 board)  
2pcs 1-955-108-11 o HARNESS, FU-CP

## HARNESS (HOT LINE)

(CN441/FU-63 board to MB-601 board)  
CN441 1-535-893-11 o TAB, FASTON

## HARNESS (KEY-LCD)

(CN463/KY-315 board to CN1 and CN2/AUDIO METER)  
1pc 1-955-095-11 o HARNESS, KEY-LCD  
CN463(10pcs) 1-565-977-11 s CONTACT, FEMALE AWG28-32  
CN1(8pcs) 1-569-193-11 o CONTACT, FEMALE

## HARNESS (MB-ADA)

(CN914/MB-601 board to CN557/ADA-44 board)  
1pc 1-955-098-11 o HARNESS, MB-ADA  
CN914 1-569-618-11 o HOUSING, 3P  
3pcs 1-565-977-11 s CONTACT, FEMALE AWG28-32  
CN557 1-569-618-11 o HOUSING, 3P  
3pcs 1-565-977-11 s CONTACT, FEMALE AWG28-32

## HARNESS (MB-AH1)

(CN949/MB-601 board to CUE ERASE HEAD and TC ERASE  
HEAD/AH-52 board)  
1pc 1-955-120-11 o HARNESS, MB-AH1  
CN949 1-569-199-11 o HOUSING, 6P  
4pcs 1-569-193-11 o CONTACT, FEMALE

## HARNESS (MB-AH2)

(CN947/MB-601 board to TC HEAD/AH-52 board)  
1pc 1-955-121-11 o HARNESS, MB-AH2  
CN947 1-569-196-41 o HOUSING, 3P  
2pcs 1-569-193-11 o CONTACT, FEMALE

## HARNESS (MB-CC)

(CN923/MB-601 board to CN451/CC-66 board)  
1pc 1-955-109-11 o HARNESS, MB-CC

## HARNESS (MB-DR1)

(CN941/MB-601 board to CN3/DR-239 board)  
1pc 1-955-094-11 o HARNESS, MB-DR1  
CN941 1-565-979-11 o HOUSING, 8P  
8pcs 1-565-977-11 s CONTACT, FEMALE AWG28-32  
CN3 1-565-979-11 o HOUSING, 8P  
8pcs 1-565-977-11 s CONTACT, FEMALE AWG28-32

## (FRAME)

Ref. No.  
or Q'ty Part No. SP Description

## HARNESS (MB-DR2)

(CN913/MB-601 board to CN1/DR-239 board)  
 1pc 1-955-116-11 o HARNESS, MB-DR2  
 CN913 1-580-585-11 o HOUSING, 18P  
 6pcs 1-573-176-11 o CONTACT, LY, FEMALE AWG22-26  
 12pcs 1-580-599-11 o TERMINAL, SOLDERLESS  
 CN1 1-580-585-11 o HOUSING, 18P  
 6pcs 1-573-176-11 o CONTACT, LY, FEMALE AWG22-26  
 12pcs 1-580-599-11 o TERMINAL, SOLDERLESS

## HARNESS (MB-FE)

(CN956/MB-601 board to FE HEAD/FE-11 board)  
 1pc 1-955-122-11 o HARNESS, MB-FE  
 CN956 1-569-196-21 o HOUSING, 3P  
 1pc 1-569-191-11 o CONTACT, FEMALE AWG22-26  
 2pcs 1-569-193-11 o CONTACT, FEMALE

## HARNESS (MB44-T TOPA)

(CN944/MB-601 board to TAPE TOP SENSOR)  
 (CN958/MB-601 board to TAPA END SENSOR)  
 2pc 1-948-409-11 o HARNESS, MB44-TTOPA  
 SENSOR 1-543-316-21 s HEAD, SENSING (SMALL TYPE)  
 CN944 1-569-195-21 o HOUSING, 2P  
 2pcs 1-569-193-11 o CONTACT, FEMALE  
 CN958 1-569-195-21 o HOUSING, 2P  
 2pcs 1-569-193-11 o CONTACT, FEMALE

## HARNESS (MB54-TR)

(CN954/MB-601 board to CN1/TR-57 board)  
 CN954 (4pcs)  
 1-569-193-11 o CONTACT, FEMALE  
 CN1 1-562-737-11 o HOUSING, 4P  
 4pcs 1-564-831-11 o CONTACT, FEMALE

## HARNESS (MB56-CTL)

(CN955/MB-601 board to CN1/CTL head)  
 1pc 1-948-405-12 o HARNESS, MB56-CTL  
 CN955 1-569-196-11 o HOUSING, 3P  
 3pcs 1-569-193-11 o CONTACT, FEMALE  
 CN1 1-562-735-11 o HOUSING, 2P  
 2pcs 1-564-831-11 o CONTACT, FEMALE

## HARNESS (MB57-CS)

(CN957/MB-601 board to CN1/CS-26 board)  
 CN957 (7pcs)  
 1-569-193-11 o CONTACT, FEMALE  
 CN1 (7pcs)  
 1-564-831-11 o CONTACT, FEMALE

## HARNESS (PSW-FU)

(CN601/PSW-31 board to CN443/FU-63 board)  
 1pc 1-948-737-11 o HARNESS, PSW-FU  
 CN601 1-569-197-41 o HOUSING, 4P  
 4pcs 1-569-193-11 o CONTACT, FEMALE  
 CN443 1-569-197-41 o HOUSING, 4P  
 4pcs 1-569-193-11 o CONTACT, FEMALE

## HARNESS (SST-ADA)

(CN111/SST-3 board to CN554/ADA-44 board)  
 (CN105/SST-3 board to CN1/CON-18 board)  
 2pcs 1-955-104-11 o HARNESS, SST-ADA

## HARNESS (SST-CP)

(CN110/SST-3 board to CN412/CP-260 board)  
 1pc 1-955-103-11 o HARNESS, SST-CP  
 CN110 1-568-523-11 s HOUSING, 13P  
 CN412 1-568-523-11 s HOUSING, 13P

## (FRAME)

Ref. No.  
or Q'ty Part No. SP Description

## HARNESS (SST-DET15)

(CN113/SST-3 board to CN1/DET-15 board)  
 1pc 1-955-124-11 o HARNESS, SST-DET15  
 CN113 1-569-196-41 o HOUSING, 3P  
 3pcs 1-569-193-11 o CONTACT, FEMALE  
 CN1 1-569-196-41 o HOUSING, 3P  
 3pcs 1-569-193-11 o CONTACT, FEMALE

## HARNESS (SST-DET26)

(CN102/SST-3 board to CN1/DET-26 board)  
 1pc 1-955-123-11 o HARNESS, SST-DET26  
 CN102 1-569-197-11 o HOUSING, 4P  
 4pcs 1-569-193-11 o CONTACT, FEMALE  
 CN1 1-569-197-11 o HOUSING, 4P  
 4pcs 1-569-193-11 o CONTACT, FEMALE

## HARNESS (SST-DSUB)

(CN106/SST-3 board to CN1010/REMOTE CONNECTOR)  
 1pc 1-955-115-11 o HARNESS, SST-DSUB  
 CN106 1-561-382-31 s CONNECTOR, 10P, FEMALE

## HARNESS (SST-FU)

(CN115/SST-3 board to CN446/FU-63 board)  
 1pc 1-955-114-11 o HARNESS, SST-FU

## HARNESS (SST-KEY1)

(CN103/SST-3 board to CN461/KY-315 board)  
 1pc 1-955-106-11 o HARNESS, SST-KEY1

## HARNESS (SST-KEY2)

(CN104/SST-3 board to CN462/KY-315 board)  
 1pc 1-955-107-11 o HARNESS, SST-KEY2

## HARNESS (SST-SE)

(CN101/SST-3 board to CN1/SE-233 board)  
 (CN209/VPR-12 board to CN457/CC-66 board)  
 2pcs 1-955-105-11 o HARNESS, SST-SE

## HARNESS (TC5-VR15)

(CN112/SST-3 board to CN455/CC-66 board)  
 1pc 1-953-433-11 o HARNESS, TC5-VR15

## HARNESS (TC8-CP18)

(CN108/SST-3 board to CN452/CC-66 board)  
 (CN555/ADA-44 board to CN206/DPR-62 board)  
 2pcs 1-953-429-11 o HARNESS, TC8-CP18

## HARNESS (TC9-CP19)

(CN302/EQ-54 board to CN1/SR-56 board)  
 1pc 1-953-436-11 o HARNESS, TC9-CP19

## HARNESS (VPR-CC56)

(CN210/VPR-12 board to CN456/CC-66 board)  
 1pc 1-955-110-11 o HARNESS, VPR-CC56

## HARNESS (VR-VR)

(CN1, CN2, CN3 or CN4/VR-194 board to VR-206 board)  
 4pcs 1-955-097-11 o HARNESS, VR-VR  
 CNx 1-569-618-11 o HOUSING, 3P  
 3pcs 1-565-977-11 s CONTACT, FEMALE AWG28-32

## HARNESS (XLR-(A)) [for UC,SY]

(AUDIO IN CH-1 connector to CN403/CP-260 board)  
 (AUDIO IN CH-2 connector to CN404/CP-260 board)  
 (AUDIO IN CH-3 connector to CN405/CP-260 board)  
 (AUDIO IN CH-4 connector to CN406/CP-260 board)  
 CH-x 1-566-616-11 s CONNECTOR, XLR 3P, FEMALE  
 CN40x 1-569-618-11 o HOUSING, 3P  
 3pcs 1-565-977-11 s CONTACT, FEMALE AWG28-32

## 5-5. Accessories List

(FRAME)

Ref. No.  
or Q'ty Part No. SP Description

HARNESS (XLR-(A)) [for J]  
(AUDIO OUT CH-1 connector to CN414/CP-260 board)  
(AUDIO OUT CH-2 connector to CN415/CP-260 board)  
(AUDIO OUT CH-3 connector to CN416/CP-260 board)  
(AUDIO OUT CH-4 connector to CN417/CP-260 board)  
CH-x 1-566-617-11 s CONNECTOR, XLR 3P, MALE  
CN41x 1-569-618-11 o HOUSING, 3P  
3pcs 1-565-977-11 s CONTACT, FEMALE AWG28-32

HARNESS (XLR-(B)) [for UC,SY]  
(AUDIO OUT CH-1 connector to CN414/CP-260 board)  
(AUDIO OUT CH-2 connector to CN415/CP-260 board)  
(AUDIO OUT CH-3 connector to CN416/CP-260 board)  
(AUDIO OUT CH-4 connector to CN417/CP-260 board)  
CH-x 1-566-617-11 s CONNECTOR, XLR 3P, MALE  
CN41x 1-569-618-11 o HOUSING, 3P  
3pcs 1-565-977-11 s CONTACT, FEMALE AWG28-32

HARNESS (XLR-(B)) [for J]  
(AUDIO IN CH-1 connector to CN403/CP-260 board)  
(AUDIO IN CH-2 connector to CN404/CP-260 board)  
(AUDIO IN CH-3 connector to CN405/CP-260 board)  
(AUDIO IN CH-4 connector to CN406/CP-260 board)  
CH-x 1-566-616-11 s CONNECTOR, XLR 3P, FEMALE  
CN40x 1-569-618-11 o HOUSING, 3P  
3pcs 1-565-977-11 s CONTACT, FEMALE AWG28-32

Ref. No.  
or Q'ty Part No. SP Description

1 A-6772-374-A s BELT ASSY, SHOULDER

## 5-6. Optional Fixtures List

Part No. SP Description

J-6001-820-A o UPPER DRUM ECCENTRICITY ADJUSTMENT TOOL (3)  
J-6001-830-A o UPPER DRUM ECCENTRICITY ADJUSTMENT TOOL (2)  
J-6031-840-B o MULTI CONNECTOR CABLE (CIBNC)  
J-6080-840-A o SMALL MIRROR  
J-6086-570-A o REFERENCE FLAT PLATE

J-6087-000-A o UPPER DRUM ECCENTRICITY ADJUSTMENT TOOL (5)  
J-6152-450-A o WIRE CLEARANCE GAUGE SET  
J-6322-420-A o TAPE GUIDE ADJUSTMENT DRIVER (45)  
J-6322-420-3 o TG DRIVER SPARE BIT (ACROSS 0.89)  
J-6323-530-A o STOP WASHER FASTENING TOOL

J-6325-110-A o TORQUE SCREWDRIVER'S BIT (FOR M1.4)  
J-6325-380-A o TORQUE SCREWDRIVER'S BIT (FOR M2)  
J-6325-400-A o TORQUE SCREWDRIVER'S (FOR 3 KG)  
J-6325-530-A o UPPER DRUM ECCENTRICITY ADJUSTMENT TOOL (6)  
J-6326-120-A o HEXAGON BIT

J-6326-530-A o CASSETTE REFERENCE PLATE (L)  
J-6326-940-A o S SIDE GAUGE  
J-6329-350-A o REEL TABLE HEIGHT GAUGE, MW-935  
J-6421-330-A o EXTENSION BOARD, BC-133  
J-6421-340-A o EXTENSION BOARD, BC-134

J-6421-430-A o EXTENSION HARNESS, VIDEO  
J-6421-440-A o EXTENSION HARNESS, AUDIO  
J-7031-030-A o S-TENSION ARM POSITIONING PIN  
J-7031-040-A o WEIGHT FOR S-TENSION ADJUSTMENT (W76.7)  
J-7031-050-A o WEIGHT FOR S-TENSION (W 44)

J-7031-260-A o MASTER BLOCK (T2)  
J-7031-270-A o MASTER BLOCK (S2)  
J-7031-280-A o S-TEN ADJUSTING TABLE  
J-7031-450-A o END SENSOR POSITIONING TOOL  
J-7031-460-A o TORQUE SCREWDRIVER'S HEXAGONAL BIT (ACROSS 1.27)

2-034-697-00 o CLEANING PIECE  
7-651-000-10 o SONY GREASE, SGL-601 (50 G)  
7-651-000-11 o SONY GREASE, SGL-801 (50 G)  
7-661-018-18 o MITSUBISHI DIAMOND MACHINE OIL HYDRO FLUID NT-68  
7-700-736-05 o L-SHAPED HEXAGONAL WRENCH (D=1.5 mm)

7-700-736-06 o L-SHAPED HEXAGONAL WRENCH (D=0.9 mm)  
8-960-073-01 o ALIGNMENT TAPE, ZR5-1 [for NTSC]  
8-960-073-11 o ALIGNMENT TAPE, ZR2-1 [for NTSC]  
8-960-073-51 o ALIGNMENT TAPE, ZR5-1P [for PAL]  
8-960-073-61 o ALIGNMENT TAPE, ZR2-1P [for PAL]

9-911-053-00 o THICKNESS GAUGE  
9-919-573-01 o CLEANING FLUID